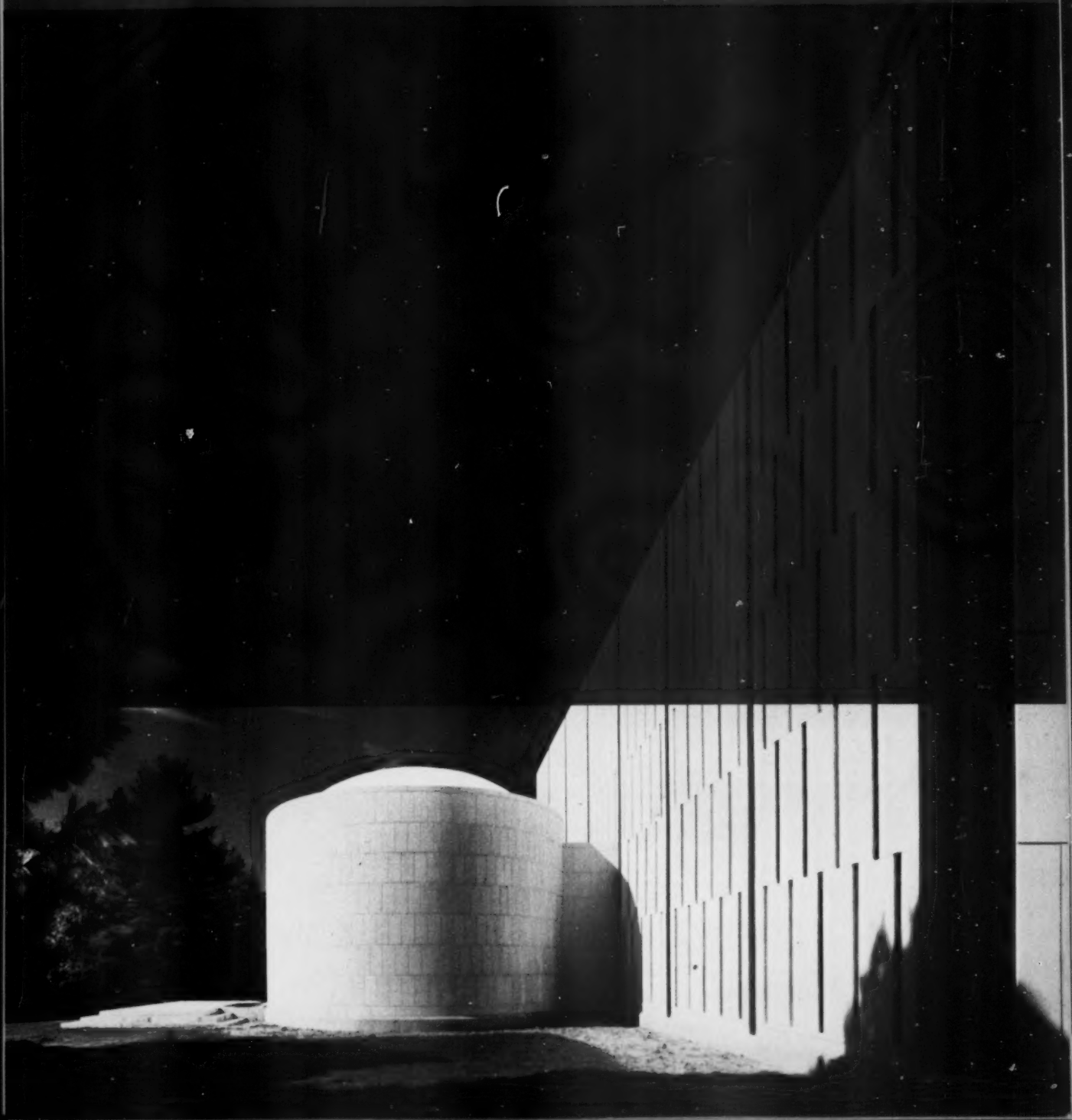


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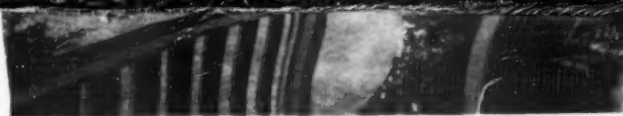
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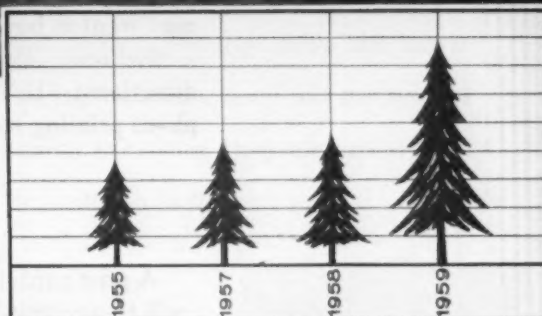
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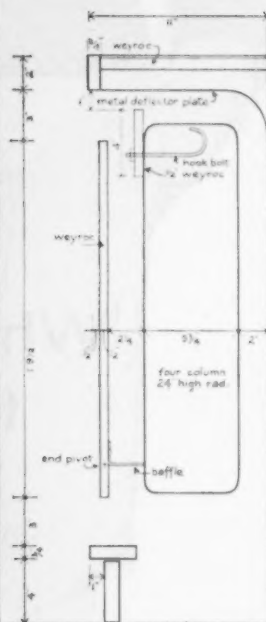
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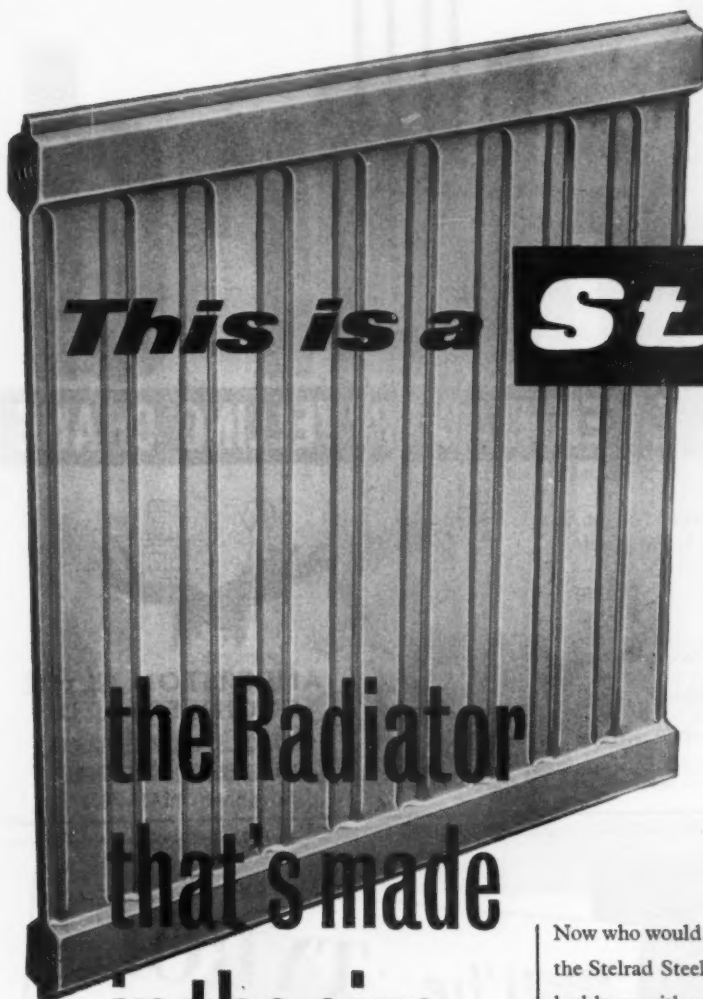
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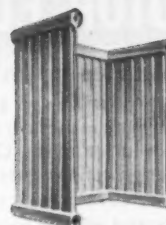


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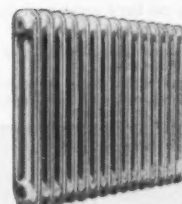
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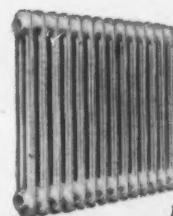
Double Wall



Angle-Wall



3-Column



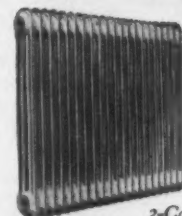
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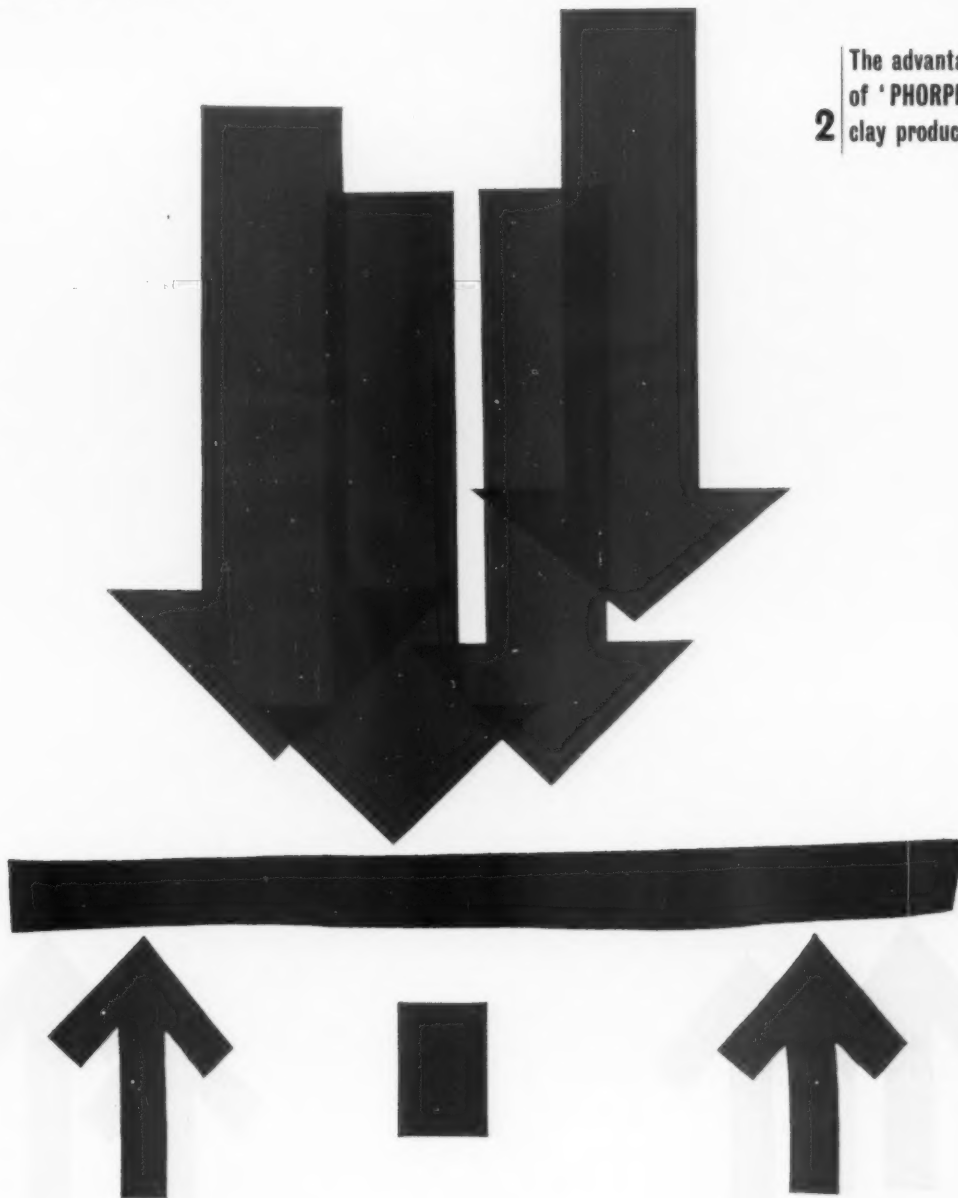
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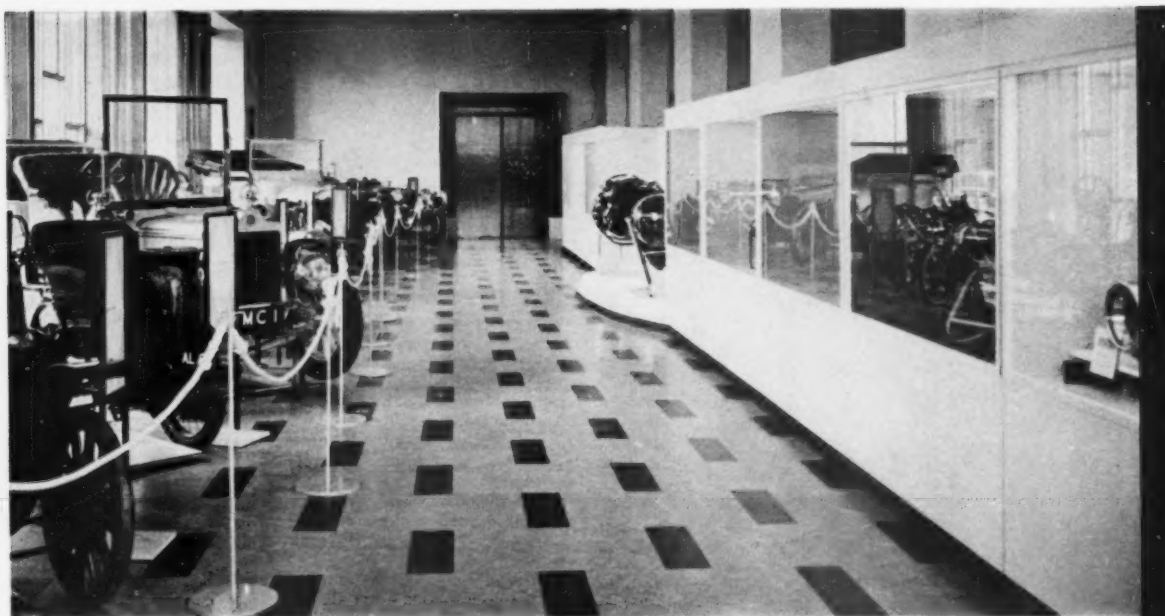
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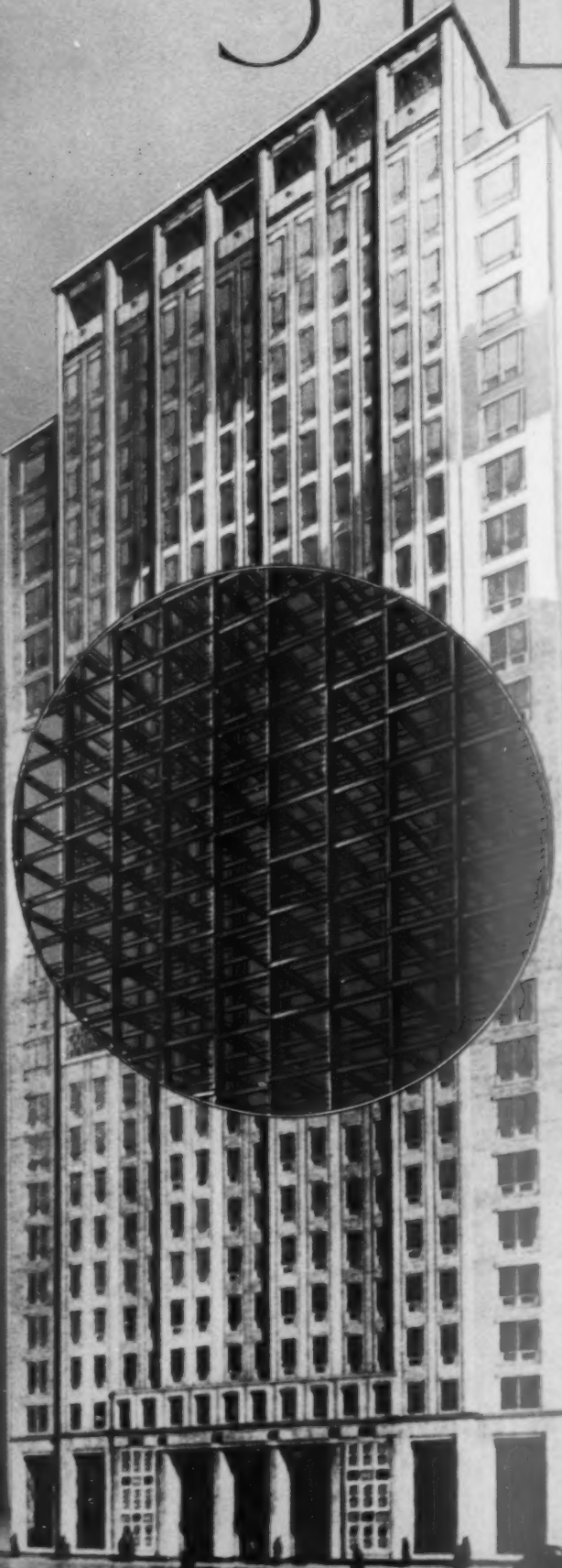
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structure of the profession

THE structure of the architectural profession is one of the major issues facing the RIBA in the coming year. On the one hand, the purists claim that there should be one class of fully qualified men with perhaps higher qualifications to be gained through specialization. On the other hand, some practitioners are equally sure that there are many jobs in the ordinary office which do not need the attention of a fully qualified architect.

The first is clear enough, but, carried to extremes, it might well prove to be both frustrating and unworkable. It is probable that in the future all the architectural assistants, having obtained their two 'A' level passes, will have attended a full-time course at an architectural school, and have qualified, apart from their two years' practical experience, before finally entering an office (unless there are sandwich courses, and these could scarcely be universal). In this way offices would be deprived of their junior staffs, apart from holiday periods; and all the work, however routine, would have to be done by qualified men.

The second point of view, strongly held in the allied societies, recognizes not only the need for technical assistants who would be content to specialize in a limited field without attempting to qualify, but also the need for architectural draughtsmen who could, as now, relieve their seniors of much of the weight of drawing work.

Obviously it would be impractical to lay down the same rules for offices ranging from the large London and provincial partnerships, which are forced willy nilly into some degree of specialization, to the small one-man bands in the remoter parts of the country which usefully undertake all kinds of work in order to earn a living.

The RIBA, wisely, refuses to pontificate on the subject. Professor Matthews' committee is hoping to have preliminary results of its fact-finding survey available in about six months' time and will then be in a position to consider ways and means of helping promising recruits to the profession who, whether through late development, lack of finance or for other reasons, are unable to enter it in what will become the normal way.

The basic aims must be greater efficiency and economy in the architectural office organization coupled with higher professional standards in order to produce better architecture. There may well prove to be more than one way of achieving this.

New Allied Society

Watchdog of the Allied Societies' interests, Bill Ellis, deputy secretary of the RIBA, was quick to point out an error on this page in the issue for December 14, under the above heading. The heading should have read New Allied Society Journal. The omission of the last word was a printers' error, for which I apologize. The Northamptonshire, Bedfordshire and Huntingdonshire Association of Architects was in fact founded in 1911 and became allied to the RIBA in 1912.

New year

My last year's resolution to visit the National Gallery once a week lasted exactly three weeks, as did the determination to be 'at home' on Sunday mornings. It is not very easy to look forward to 1961 with calm and unsullied confidence. 1960 seems to have been the same old rush with just that little increase in pace over 1959 to show that it was different. I, personally, do not spend much time wondering if we shall all be here in a year's time but a lot of people seem to. This strikes me as being a very unprofitable kind of thing to do. Mind you, I am never guilty of cramming every minute with profitable enterprises. For example, I spend quite a lot of time looking forward to the next sailing season, which is escapism, and to the sunshine, which is plain wishful-thinking.

* * *

Architecture, or the lack of it, is not cut into chunks by each new year. It goes on all the time, and if we think that the present brand is, except in its very best examples, disappointing we have only to look back 20 years to see how much worse it all was then. I believe that most of the buildings going up now are better than the ones they are replacing. Their external appearance is, perhaps, duller, and their silhouettes are, perhaps, less fun on the skyline but in a way this dullness reflects our machine-made age. The fact remains that these buildings, whether housing, factories, offices, schools or colleges, work better and yes, on the whole, look better than their predecessors. Few buildings are masterpieces but it is unreasonable to expect otherwise. We have now found, alas, that if a building works well it does not automatically look well.

I do not think that the moment for what is popularly called a 'break through' in architecture has arrived. Now is the time for the strictest attention to detail and refinement; for the rejection of both the badly designed ready-made component and the easy way out. This all means more work for the same money, but it is necessary if architecture is to survive, let alone develop. Architecture is the lowest paid profession, or so we are told. Architects certainly dress for the part. This curious phenomenon which runs in a streak through all walks of architecture does not, on the whole, make the public sorry for the architects' plight. It just infuriates them. Most architects would like to see the profession more highly thought of. Many have taken the trouble to consult Organization and Methods experts so that they may serve their clients more efficiently and, incidentally, retain more of their gross earnings. This is all sound business. Going about looking like a scarecrow is not.

* * *

It is the crowning insult of modern life to criticize anyone's car driving. Architects are great motorists and for all I know are the best or the worst drivers.

The Minister of Transport, the BBC, and others have been campaigning for safer driving during the Christmas holidays, but the things that have been said apply equally well all the year round. Do you drive as well as you could? Do you ever bother to think about it at all? Has it ever

occurred to you to take the Advanced Driver's Test? The guides to it are the Highway Code which you should know, and another HMSO publication called *Roadcraft, the Police Driver's Manual* (3s 6d).

Finally, this is a particularly suitable year for putting into effect that resolution to repay your foreign architect friends for past hospitality. If you take part in the IUA Congress in July you will be able to meet many old friends from abroad and to make new ones. Those of you who live in London may like to take part in the AA's scheme for private hospitality on the evening of Monday, July 3. The response so far has been very good but, as the organizers do not yet know how many foreign architects will be coming, more offers of help are wanted. You do not have to be a member of the AA to write to the Secretary, 36 Bedford Square, WC1, saying that you will help.

IUA Congress registrations

This is positively your last warning before the Congress registration fee goes up £2 to £20 on January 1. Registrations are now coming in from all over the world. About half the applications received in the first month were from British architects; other registrations come from France, Fiji, New Zealand, Brazil, Israel, Finland and Germany. Four French architects, here last week to look at some of our hospital work, all said that they intended coming to the Congress. Rumour has it that no less than 150 architects and wives may be expected from Mexico.

Building Centre Forum

The BCS arranged the second of this season's meetings of the BC Forum. The subject was *Reinforced Lightweight Concrete*. Mr. A. Short, of the BRS, spoke of research and, in the way that officials from the august establishment have, left the audience in some doubt as to whether he considered the technique a good idea or not.

Senior structural engineer, Mr. J. H. Humphreys, of the LCC, gave the view of the bye-law administrator which, if I heard aright, was strangely liberal to this or any new technique. The LCC, said Mr. Humphreys, never did things on its own jobs that it would not allow private builders to do. Apparently, the architect to the council goes through the motions of granting himself waivers when necessary.

Mr. J. A. Berrington, of MacAlpines, seemed to like the technique, preferring to think of it first of all as ordinary reinforced concrete and not as a new material. He commented on the difficulty of controlling mixes using lightweight aggregate, because of the tendency of many such aggregates to soak up or otherwise entrap water. His firm had found that the only reliable way was to saturate the aggregate first of all so that one had a known point from which to start controlling the mix. This had obvious disadvantages.

In the discussion which followed, it came out that the BRS and some makers of lightweight aggregate had been experimenting with the waterproofing of aggregates to prevent absorption. A plea was made to architects for more money to spend on obtaining a good finish straight from the shuttering, so that no plastering or decoration would be necessary. Scorn was poured on architects who wished to cover such a surface with gloss paint. It appears that the cost of filling the surface before painting much exceeds the cost of the painting. Both these suggestions came from engineers, who declined to say how they would treat such a surface decoratively.

The problem of reduced sound insulation values due to savings in weight was raised and deftly hidden in a haze of scientific jargon mixed with misleading information on the difference between airborne and impact noise. It was stated, however, by someone that for reasons not yet fully known lightweight concrete buildings were quiet buildings.

ABNER

Internecine strife

Sir,—The naivety and pretentiousness of a number of the more vociferous members of the RIBA and, it seems, the commercial architectural press, is amazing. The high ideals attributed to the RIBA's letter to the town clerks of those local authorities which do not employ an architect as chief officer would be laughable if the letter did not smack of unprofessional conduct. It is apparent that there is considerable ignorance concerning the organization of those departments under the control of city and borough engineers which are responsible for architectural services to their local authorities, and I think it is necessary to set out the facts.

In these departments there are architectural sections staffed by architects who are as well qualified and, at least, of the same calibre as those staffing the departments headed by architects as chief officers. It is at this level that designs originate, except when the chief officer has a 'pet' scheme of his own, and, in consequence, the quality of work turned out in a borough engineer's department is not in any way inferior to that of the chief architects' departments.

Except in a very limited number of cases the quality of design of local authority work is of a much higher standard than that of private development, whether it be residential or commercial. A considerable number of private housing estates at present being developed, as well as office blocks in town centres, deserve the appellation mediocre much more than any local authority development, whether this be the responsibility of a department headed by a chief architect or an architectural section within a borough engineer's department.

It seems to me that the RIBA and others, such as the architectural press, would be performing a much greater service to the community as well as enhancing their own reputation, if they directed their energies to correcting this state of affairs and not dissipating them on efforts such as the present somewhat questionable approach to those local authorities which are being served with extreme efficiency, as well as a high standard of quality in design, by members of a sister profession.

The somewhat impertinent claim made in the leading article of your December 7 issue that a chief planning officer should have an architectural qualification when major reconstruction is taking place will not withstand even the most cursory examination. It is not necessary to be a good cook to run a successful hotel. I might mention here that the term architect-planner which we hear so much of these days is, to my mind, just as nonsensical as would be the term bricklayer-architect.

This campaign of the RIBA, aided by such comments as your leading article, is causing the 'internecine strife' to which you refer. This is to be deplored, particularly when the problems of development and redevelopment as well as economic pressures tending to exploit the use of land without due regard for amenity and other considerations are such as to demand the concerted effort of all the professions to meet them adequately.

Yours, etc.,

R. H. OGDEN,

Borough Engineer and Surveyor,
County Borough of Bury.

The town-building squabble

Sir,—A fight has developed between the municipal engineers and the chartered architects for supremacy in designing public-sponsored housing and other buildings, and in determining the plan and appearance of the towns.

It is a pity that surveyors, architects and engineers have not got together to establish where one division of labour ends and another begins. Am I right in assuming that the Privy Council, which grants Royal Charters to chartered professions, has the power to determine the limits of each division of professional activity? At first sight this supreme state council seems to be in the hands of politicians and not distinguished men from all other walks of life.

Whoever was responsible for the growth of towns in the past 50 years has been neglectful as to appearance, traffic

requirements, and civic pride and culture as expressed by public buildings, parks, bridges or even railway stations. The only profession which seems to have saved the general eyesore from being also a slum are the lawyers with their by-laws.

Judging by the wastefulness of time that is encountered in some local authority professional offices, it may prove cheaper for ratepayers to have no staff on their pay-roll except maintenance staff, the design of buildings and engineering services being in the hands of professional consultants with their own private offices.

But the trend is towards socialism and everyone working for the state. The doctors have gone on the state pay-roll and there is no reason why the same should not be done by the surveyors, architects and engineers.

Perhaps the Privy Council, parliament or the professional bodies themselves concerned in the maintenance and building of towns, can establish what gifts are required by the designer or maintenance superintendent of a town, how the necessary skills can be obtained and how soon to start allowing young men to pursue the necessary knowledge that their predecessors obviously lacked.

There is nothing more pitiable than seeing a surveyor who has got his articles pretending also to be an architect. The contempt shown by architects towards borough engineers makes them forget the large amount of experience that these men possess, even if sometimes they may lack taste and a deep sense of beauty.

Yours, etc.,

B. BEDNARCZYK.

diary

This week

The Building Centre

January 2, 11.30 a.m. Demonstration, Polycell Products Ltd.

January 4, 12.45 p.m. Lunchtime Film Show. 'Deep Water at Bridgetown' and 'Costain at Kariba'. Both meetings at Store Street, W.C.1.

Midland Design and Building Centre

Now until January 7, 10 a.m.-6 p.m. (Wednesday until 8 p.m., Thursday until 1 p.m.). Exhibition of graphic design for Christmas. At Granby Street, Nottingham.

Royal Institution of Chartered Surveyors

January 2, 5.45 p.m. Ordinary General Meeting. 'Fire Precautions in Buildings', Chief Officer F. W. Delve, CBE, MIFireE, London Fire Brigade. At 12 Great George Street, Parliament Square, Westminster, S.W.1.

Coming events

Royal Institute of British Architects

January 10, 6 p.m. Announcement of award of prizes and studentships. 'Modern Architecture and the Historian', Professor Nikolaus Pevsner, CBE, PhD, MA, FSA(HON). At 66 Portland Place, W.1.

The Institution of Structural Engineers

January 12, 5.55 p.m. 'The Structural Use of Aerated Concrete', A. Short, MSc, JP, MStructE and W. Kinniburgh, FRIC.

Competitions reminders

The Star Competition (redevelopment of Piccadilly Circus). Closing date for entries: January 16, 1961 (news, A & BN, November 30).

Country Landowners' Association (Farm Buildings). Closing date for entries: December 30 (news, A & BN, September 21).

Royal Institute of British Architects. Board of Architectural Education. Last date for submission of application forms for the Tite Prize: January 13, 1961.

From Bethlehem to Coventry Cathedral—a story of goodwill

How a three-ton rock which has stood on the hillside outside Bethlehem for thousands of years—and would have been there when Christ was born and lived in Judea—was conveyed to Coventry Cathedral provides a seasonable story of goodwill. The cathedral font will be made from the rock, to forge a link with the origin of the Christian Faith.

The idea was suggested to Sir Basil Spence by Frankland Dark about two years ago. Sir Ferguson Crawford, late of the Embassy in Beirut, undertook the first survey of suitable boulders and it was he who piloted this scheme through all the political crises of the last two years in Palestine. In this he was assisted by the British Consul-General in Jerusalem, Mr. Martin F. Young. Mr. J. E. Simpson, architect in Jerusalem, arranged with contractors to remove the boulder and have it wrapped and crated for transport. The packing and crating was the gift of Mr. Sayyed Amin Shabin, of Amman in Jordan.

The next operation was to get the boulder to the coast and here an entirely different team joined the goodwill surrounding the rock. It was decided to get it to the port of Beirut, and the firm of Belfante and Catoni, steamship agents and brokers, brought into the picture many unknown people who co-operated in what was in fact one of the potentially difficult parts of the story.

Arrangements were made with the Prince Line of London, who conveyed the boulder from Beirut to Manchester free of freight charges. On the way from Bethlehem to Beirut the boulder had to be transported across the Jordan-Syria and Syria-Lebanon borders. Not only was this done entirely free of discord, but the transport systems of these countries added yet again to the saga of goodwill by charging no freight whatever.

The final stage of the journey from Manchester to Coventry completed the story of goodwill—transport costs were met by John Laing and Son. The boulder arrived at Coventry just before Christmas. It was unveiled last Thursday.

The font made of this boulder will preserve its rough character with simple Christian symbols carved here and there upon it, but retaining essentially its primitive character. It will be placed on a raised platform under the great Baptistery Window of the new cathedral.

Competition for housing scheme

Westminster City Council is inviting architects to submit designs in competition for the layout of a £2 million housing scheme on a 12 acre site just off Vauxhall Bridge Road.

Assessor is Philip Powell, OBE. A premium of 1,500 guineas will be paid to the winner, and a further 1,500 guineas will be allotted to the designers of not less than two nor more than five of the entries placed next.

A copy of the conditions and the plan of the competition area will be supplied on application to the Town Clerk, Westminster City Hall, Charing Cross Road, W.C.2. Applications must be accompanied by a deposit of three guineas.

Last day for receipt of questions is Friday, February 3, 1961, and for the receipt of designs Monday, July 10, 1961.

New county offices, Reading

Berkshire County Council intend to promote an architectural competition for new county offices on a site in Reading bounded by Abbot's Walk, Abbey Street and the Abbey ruins, at a cost not exceeding £700,000.

Assessor: Frederick Gibberd, CBE. Particulars will be published shortly.

Sir Hugh Casson reports on Brighton

Not one of the three schemes for redeveloping an 11½ acre seafront site at Brighton is considered satisfactory by Sir Hugh Casson, who is advising the corporation on the redevelopment.

Sir Hugh said in his report: 'None of them is quite suitable in its present form, either through individual faults of

architectural interpretation or because the boundaries need readjustment'.

Referring to the fact that each scheme included a 4,000-seater conference hall, although not specifically asked for, he questioned the wisdom of putting a new hall of such a size on such a site, where it would be 'like a great cold cuckoo's egg when not in use, bearing the label "Next attraction, June, 1971"'. Extending the facilities at the Dome and Corn Exchange might be considered.

Although he would not recommend any of the schemes as they stood, he proposed that the corporation should invite Taylor Woodrow and their architects, Russel Diplock Associates, to be given a revised brief and a slightly revised site. He felt their architecture seemed potentially of the strongest quality.

'If you've got a good architect to start with,' he said, 'then you will get good architecture when you ask for a revised scheme.'

The planning committee has approved Sir Hugh's report, but it has yet to be seen by the corporation.

'Little Venice' residents win

The Grand Union Canal between Edgware Road and Warwick Avenue, Paddington, will not have flats straddling its banks. This was decided at a meeting of the LCC recently when planning permission was refused to City Wall Properties Ltd., who submitted a development scheme for the erection of five 10-storey blocks of flats over the canal area known as 'Little Venice'. Main reason for the rejection was that the existing development, with its trees and open canal, possessed a unique character for residents and visitors.

A further application for the erection of three blocks of flats over the canal between Westbourne Terrace road bridge and Formosa Street has been submitted, but has not yet been considered by the planning committee.

Industrial consultants help architects

A private luncheon was given last week by Associated Industrial Consultants Ltd. at which the President of the RIBA, Sir William Holford, the RIBA secretary and leading members of the profession were invited to hear and discuss methods of improving procedure and increasing productivity in architects' offices, put forward by Mr. R. A. Manthei, AIC's managing director, and Mr. Kenneth Kenrick, regional manager. Mr. Kenrick explained that in most of the offices which they had helped they had managed to save 35 per cent on overheads fairly consistently. This was divided up as follows: Better planning, specification, action, etc.—10 per cent; excess fatigue from work place—5 per cent; drawing office techniques, simplified drawings—7 per cent; reduced clerical work—5 per cent; better filing—3 per cent; modern production methods for drawings—5 per cent.

TCPA urge planned town expansion

In a memorandum addressed to the Ministry of Housing and Local Government, the Town and Country Planning Association urges the Government to change the terms and administration of the Town Development Act, 1952. The Act, the association say, has failed to make any significant contribution to the solution of overspill problems.

The association claim that earlier overspill estimates are now known to be gross underestimates. By 1980 over a million dwellings must be built beyond the green belts around the great urban centres for over three million people from them. Even with substantial private building a massive extension of planned dispersal is urgently needed.

Between 100 and 200 town expansion schemes for about 1½ million people, the association say, must be completed by 1980. Ten or twelve new towns should also be started to supplement this programme. Increased Government financial aid is needed to encourage and assist towns to expand. The Act permits the Government to make grants of unspecified size towards most forms of local expenditure. In practice the Government pays the 'overspill' subsidy of £24 on each house built, and meets half the cost of extending water and sewerage systems.



synagogue at Port Chester, U.S.A.

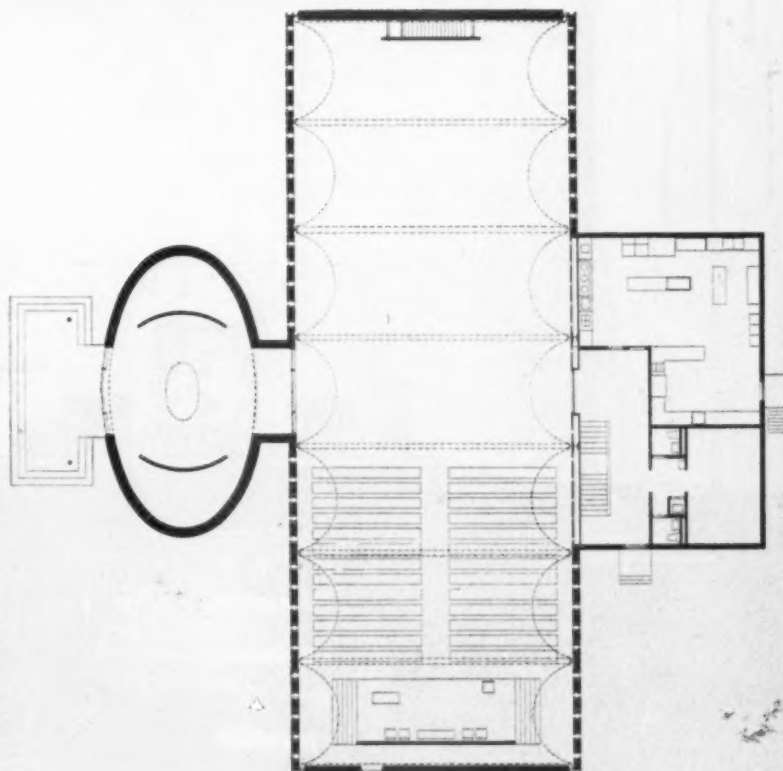
Philip Johnson, architect

THE site is at Port Chester, New York, where the Kneses Tifereth Synagogue sits high and white against a background of trees.

Entrance to the synagogue is through an elliptical vestibule, the interior form of which makes an interesting spatial contrast with the main hall.

The hall of worship, some 37ft high, has enclosing walls made up of white stone panels 6ft high, narrow slits between the panels containing stained glass. An arched plaster ceiling is suspended below the structural roof, which contains rooflights. The floor is finished in white streaked light grey asphalt and the seats are upholstered in light silver grey.

Designed to accommodate 1,000 people the floor area of the hall may be reduced by means of 8ft partitions framed in aluminium with steel bracing. These are bolted to the floor and can be easily removed when necessary.



The hall of worship is a classical composition in black, white and greys. Designed to accommodate a maximum of 1,000 people, the hall may be reduced in area by means of moveable aluminium partitions



Relations with parliament

Closer relations with parliament are being sought to secure support for the views of the architectural profession on problems of the day. There is plenty of scope for improvement—the RIBA's direct representation in the Commons is nil and in the Lords two.

A start was made in November, when the president addressed, first, a group of some 35 Conservatives and, later, some 15 Labour members at the House. Between these meetings an informal discussion over dinner was also held at the House, attended by the president and six architects, and nine influential MPs from both parties. Further informal talks will be arranged at intervals.

Survey team appointed

Members of the team to carry out the survey of architects' offices—organization, staffing and costs—will be J. M. Austin-Smith, MC, TD, a principal in private practice and A. G. Derbyshire, assistant city architect, Sheffield, and an RIBA Council member (both part-time); D. Howard, management consultant, Associated Industrial Consultants Ltd. (full-time); S. J. Madge, economist (part-time); Miss J. M. N. Milne, deputy secretary, Board of Architectural Education (full-time). Mr. C. A. Waghorn, an accountant, of Associated Industrial Consultants, will also be available as adviser.

The team will undertake personal visits to offices and will carry out a postal survey on a sample basis to check certain aspects.

Exhibition of drawings

The Library has been asked by the Minneapolis Institute of Fine Art to provide an exhibition of drawings for the Convention of the Society of Architectural Historians (USA) to be held at Minneapolis in January, 1961. About a dozen institutions in the east, mid-west and west coast areas of the United States and Canada would also welcome such an exhibition.

A selection of 54 drawings has been made and these are being mounted, framed and sealed into their frames. The aim is to make this a standard exhibition, both for this tour and any future exhibitors who require a representative selection of drawings.

Liaison with allied societies

Proposals for improving liaison between the RIBA and the allied societies have been approved. They are as follows:

1. That a quarterly meeting of allied societies' presidents should be held, and proceedings reported to the RIBA Council.
2. That the conference should meet twice instead of three times a year, and that the annual joint meeting between the Council and the allied societies' conference should be discontinued.
3. That once or twice a year a regional meeting should be held in a major city to enable members outside London to meet the president and senior officers of the Institute to hear at first hand about the work of the Council and committees, and to voice their criticisms and suggestions.
4. That senior members of the RIBA staff should be invited from time to time to attend meetings of the councils of the allied societies when items concerning their departments are under discussion.
5. That in conjunction with or occasionally in substitution for a formal annual dinner, allied societies should where possible hold a meeting addressed by the president of the RIBA followed by a free exchange of views between him and local members.

Architecture on radio and TV

The Sound Broadcasting and Television Sub-committee of the Public Relations Committee is preparing a case for submission to the Pilkington Committee on Sound and Television Broadcasting. The sub-committee will advocate more programmes on architecture, particularly the possible use of new TV channels for programmes directed at more local or specialized audiences.

in parliament

Guard against vandalism

In the House of Lords, Lord Bossom asked the Government whether there was any commensurate gain when buildings of traditional, historic or architectural importance were permitted to be destroyed and, if not, whether the Government would keep a more rigid guard against such unfortunate vandalism.

Earl Waldegrave, replying, told him that any proposal to demolish a building on the list of buildings of special historic or architectural interest had to be notified to the Minister of Housing and to the local planning authority and either he or the authority could make a building preservation order.

A decision not to make such an order was taken only where the Minister or the local planning authority was satisfied that there was no positive reason for permitting demolition that outweighed the historic or architectural importance of the particular building.

Lagos residence 'like bath-house'

A Conservative back-bencher, Mr. John Tilney (Liverpool, Wavertree), said in the Commons during question-time that the new UK High Commissioner's residence in Lagos 'looks like a rather badly designed corporation bath-house'.

Replying to Mr. Tilney, who asked for the cost of the building, Mr. R. H. M. Thompson, Parliamentary Secretary, Ministry of Works, said: 'Work is not quite finished, but

the present estimated cost of the residence, together with the servants' quarters and garden works, but excluding furnishing, is £110,000. The Nigerian Government most generously contributed £40,000 towards this sum as well as the magnificent site on which the residence has been built.'

Mr. Tilney asked if Mr. Thompson had seen the building, and added that it 'compares very unfavourably with the charming modern buildings of Lagos'.

Mr. Thompson replied: 'While not accepting the implications in your supplementary, I would say that I have not seen the building, but of course all these questions of design are matters of taste and judgement in which there is always likely to be controversy. If we tried to avoid that, we should finish up with some very dull buildings indeed.'

Kitchener's house for RFAC

Restoration of No. 2 Carlton Gardens, London—once Lord Kitchener's house—is hoped to be completed by the autumn of 1962, the Commons was told. Its principal use will be to accommodate the Royal Fine Art Commission.

Mr. R. H. M. Thompson, Parliamentary Secretary, Ministry of Works, stated during question-time: 'I hope that a contract will be let next summer and work completed in the autumn of 1962. The interior planning of the building has been revised, but working drawings are now well advanced.'

school at Scarborough

The Architect & Building News, 28 December 1960

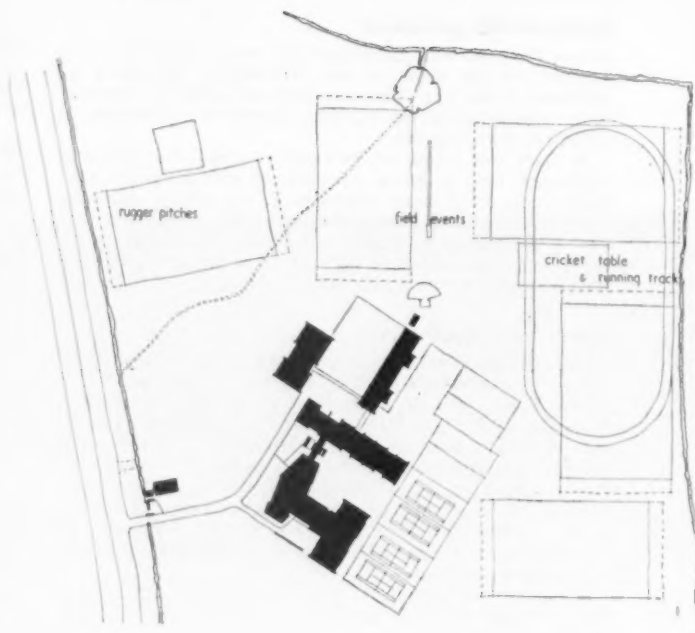
Grenfell Baines and Hargreaves, architects
 Keith Scott, architect in charge
 K. Ingham, assistant architect
 Arnold E. Towler, quantity surveyor
 E. J. Samuely, E. Moizer and
 Timber Development Association, engineers

SCARBOROUGH high school for boys is a four form entry grammar school with accommodation for 720 pupils.

Siting

The site is of a very hilly nature and the disposition of the blocks was determined by an attempt to build as much as possible with the contours. The three-storey block runs north and south on contours which sweep away to the west a few bays before the southern extremity, which allows a surface boiler house at this end of the block. The contours thus permitted the science and practical blocks to be put on the contours but at right-angles to the three-storey block. This particular siting also had regard to the positioning of the assembly hall and gymnasium which, with their large uninterrupted areas, presented little opportunity for economical planning on contours. They are, therefore, placed on the flattest part of

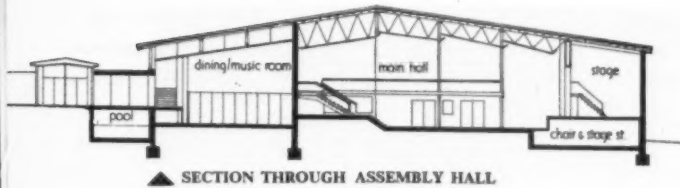
continued on page 828



SITE PLAN ▲

School from entrance and playing fields

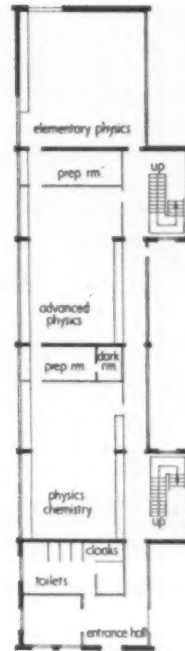
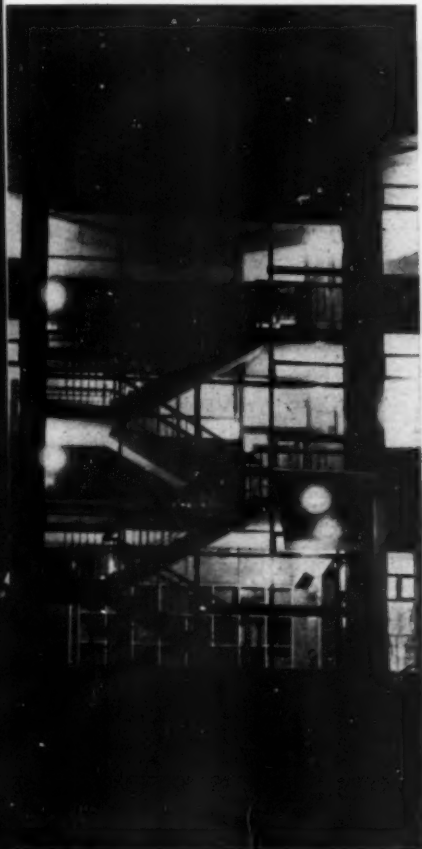




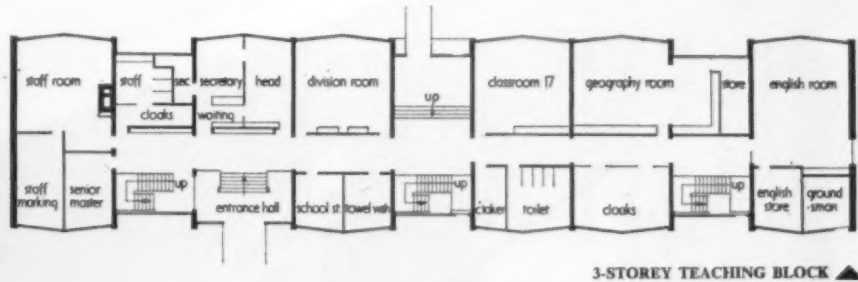
▼ WORKSHOP BLOCK



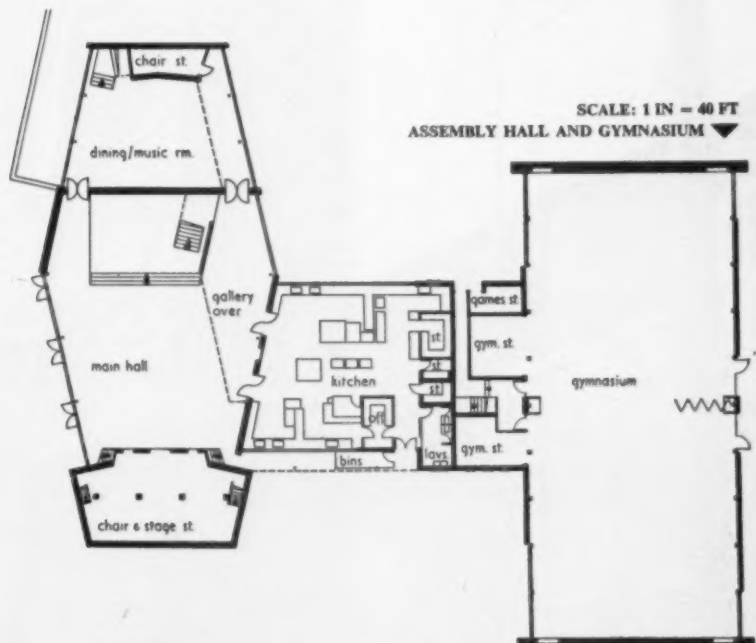
Staircase to teaching block

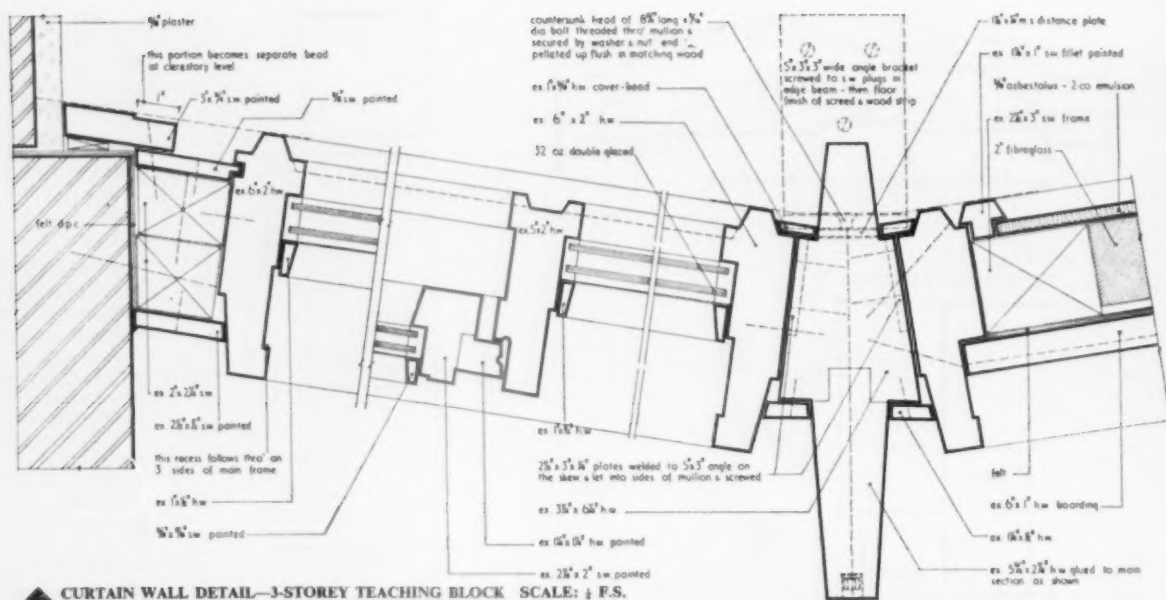


The disposition of the blocks was determined by an attempt to build with the site contours (see photo facing page). Assembly hall and gymnasium are placed at the flattest part of the site, smaller blocks being 'tailored' to give economy in cut and fill while link-corridors act as 'universal joints'. Plans on this page are placed in only general relationship, the distance between blocks being approximate (see also site plan)

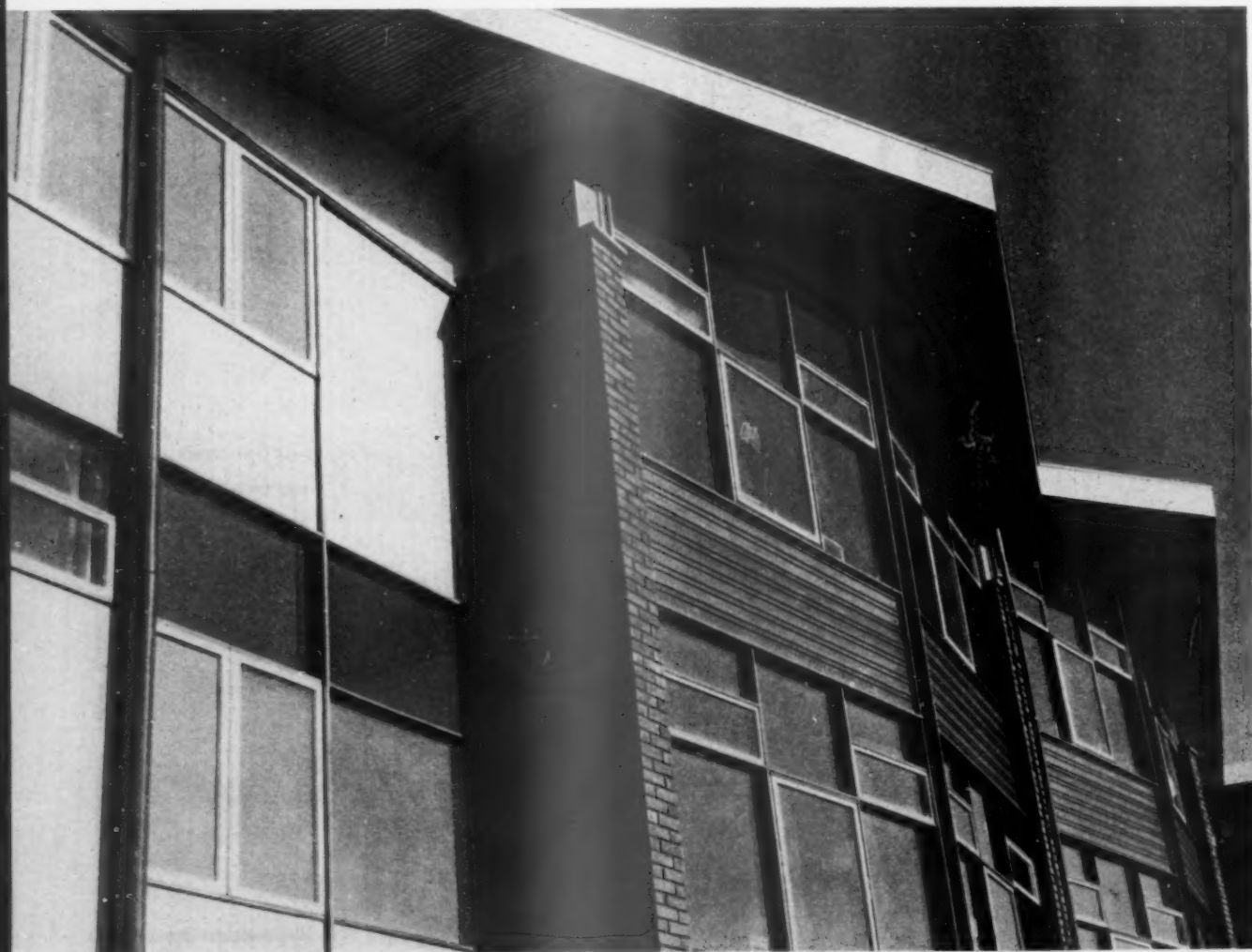


SCALE: 1 IN = 40 FT
ASSEMBLY HALL AND GYMNASIUM ▼



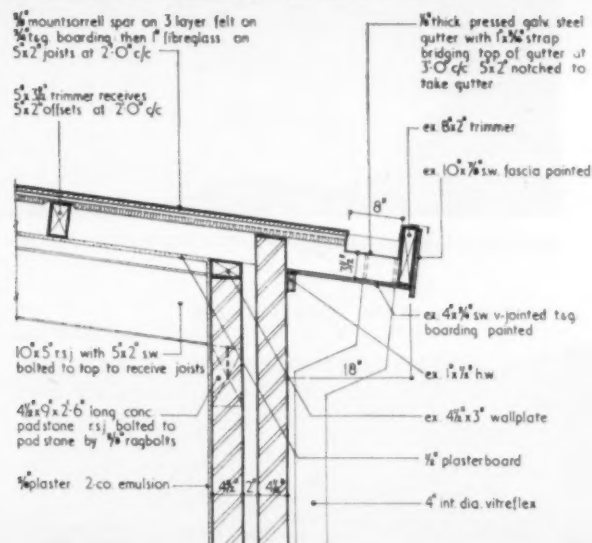


A detail of the 3-storey teaching block



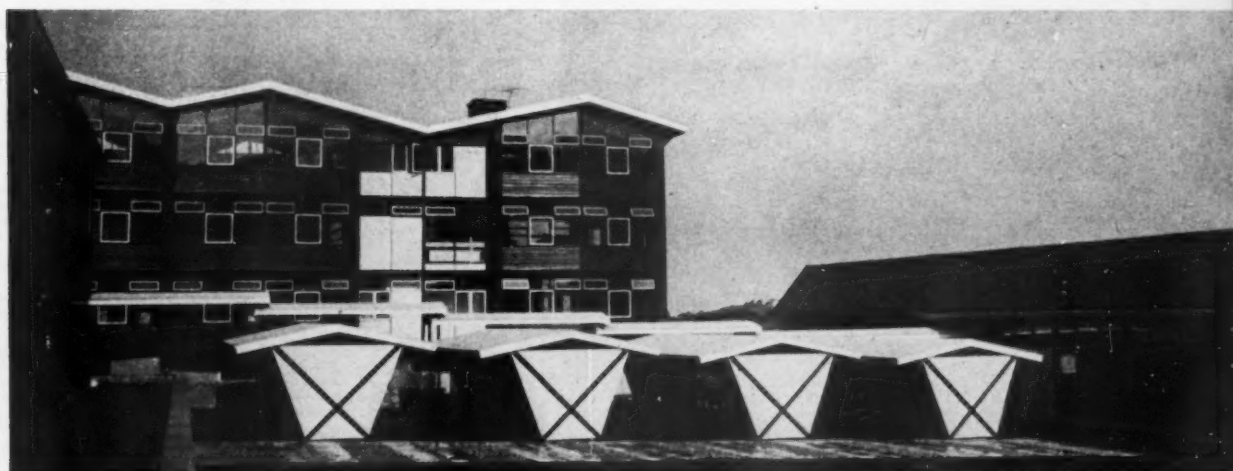


▼ ASSEMBLY HALL EAVES DETAIL SCALE: 1IN=2FT



Above, a night shot of the assembly hall. The school has a long tradition (the present block replacing a Victorian building at the centre of the town) and the accent on drama is very great. For this reason extra attention was given to the assembly hall. The stage is made the focal point of the design and is elaborately equipped. Ceiling areas are given acoustical modelling, the plan form being entirely governed by these acoustic considerations (see page 829). Fluorescent lighting is installed in addition to spot lighting, all rheostatically controlled

Below, cycle shelters are given special design treatment, adding interest to the area between science and workshop blocks



continued from page 824

the site. It was found, however, an advantage to split the scheme up in this way, because the smaller units could be tailored more specifically to the site, giving greater economies in cut and fill, and the link corridors were conceived as a sort of 'universal joint' in which a change of level was achieved.

Planning

A further key to economy was a reduction in the circulation area to get the total floor area as low as possible. A system of planning in the main classroom block was therefore devised whereby classrooms are located in groups of four round a staircase, having toilets and cloakrooms on each level sufficient for the four classrooms they serve. The result of this is that horizontal corridors, which are wasteful in floor area, were eliminated on all but the ground floor and the percentage circulation is something under 13 per cent. This arrangement also permits the use of uninterrupted 9in cross-walls and eliminates the need for any structural frame. In the design of the three-storey block an attempt is made to express the loadbearing nature of the 9in cross-walls by sitting the roof directly onto them to produce a gabled effect on the elevations. The 'prowing' of the external walls is an attempt to model the block in sympathy with the undulations of the roof and, in practice, this helps the acoustical properties of the classrooms considerably and gives a very pleasant bay-window effect.

continued on page 831

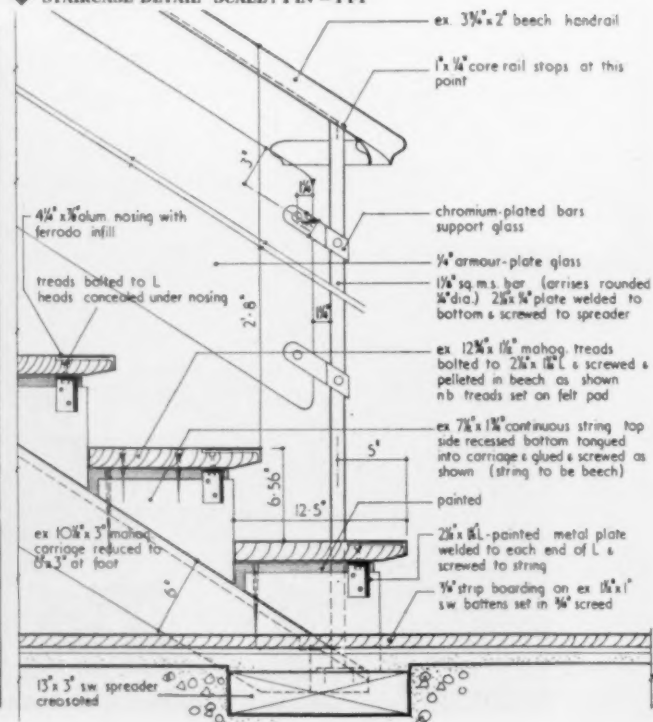


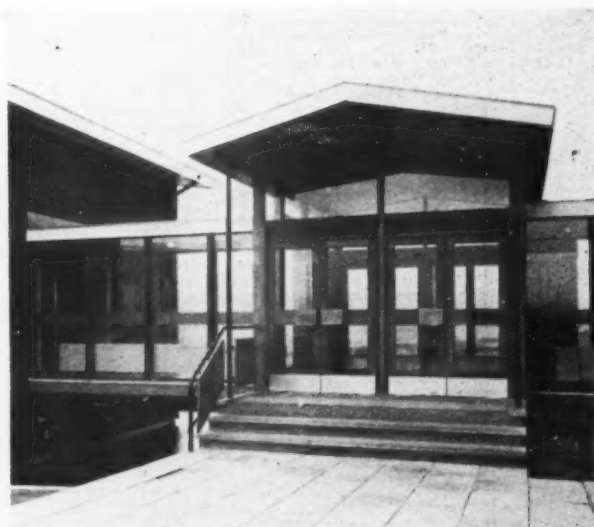
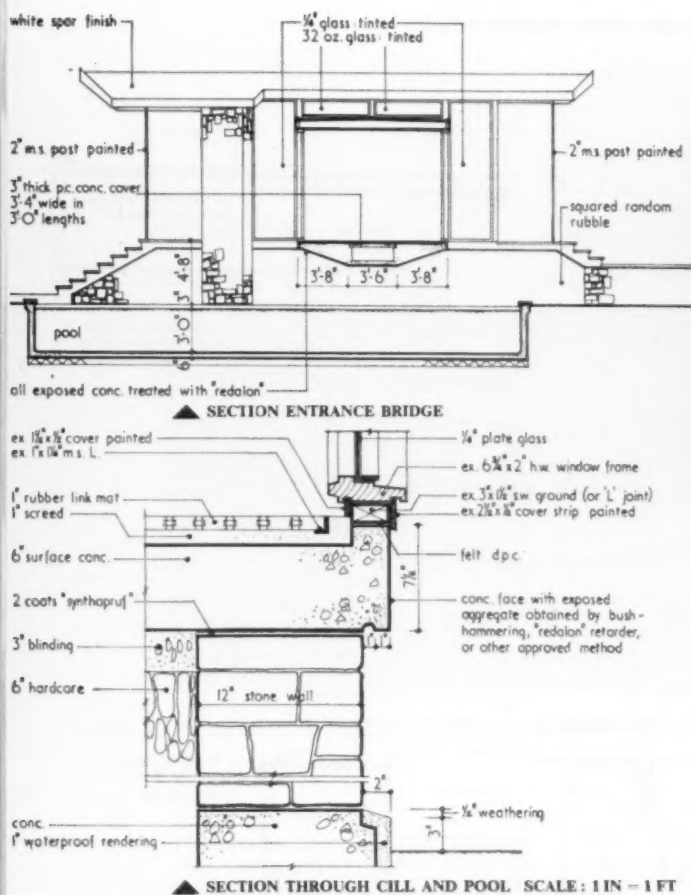
Door detail, gymnasium block

Assembly hall staircase



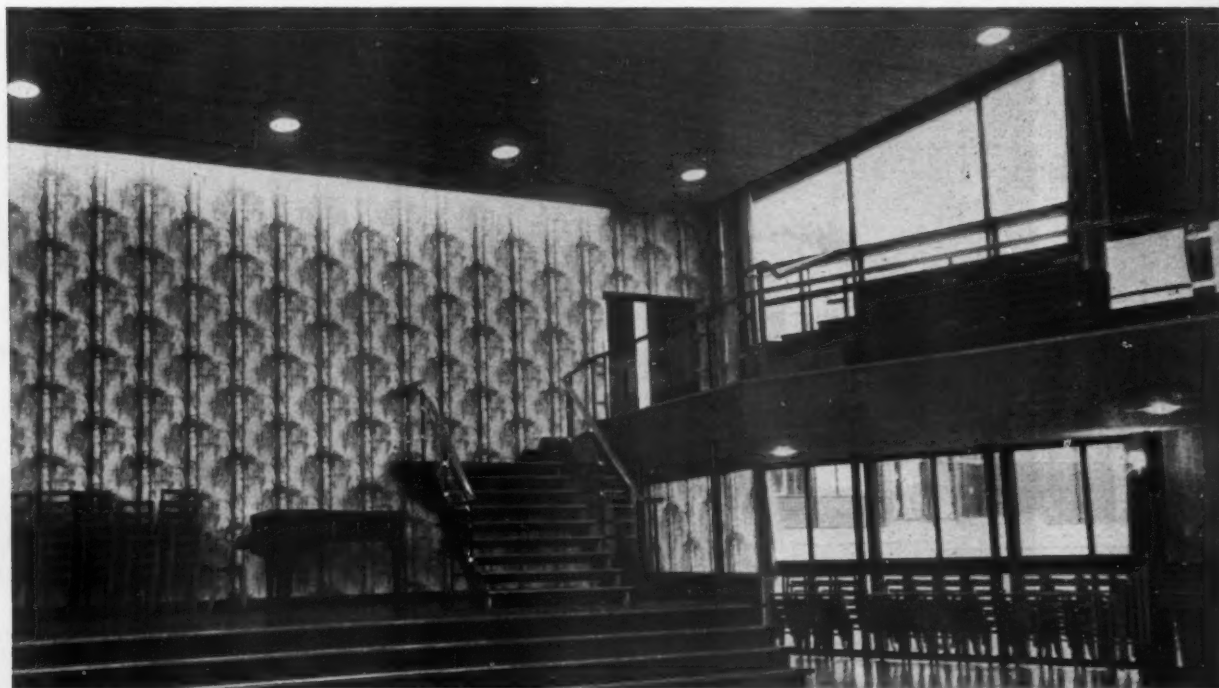
STAIRCASE DETAIL SCALE: 1 IN = 1 FT

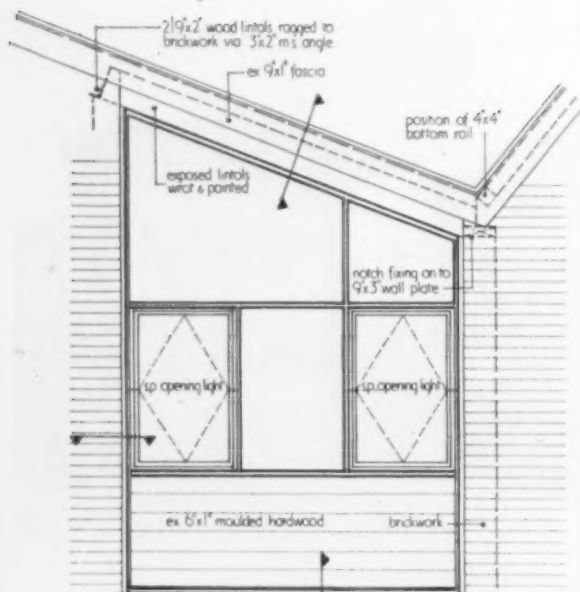




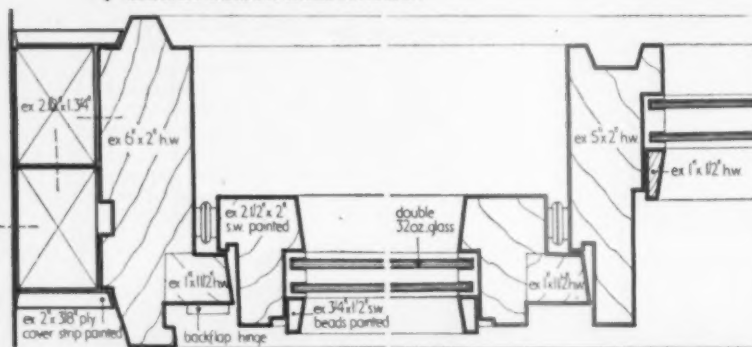
Above, an entrance in one of the 'universal joint' corridors linking assembly hall with the three-storey teaching block. Detail of this link corridor is shown to the left

Assembly hall (see staircase detail facing page)



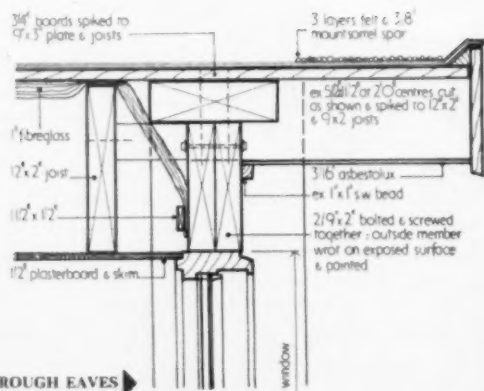


SECTION WINDOW-WALL JUNCTION



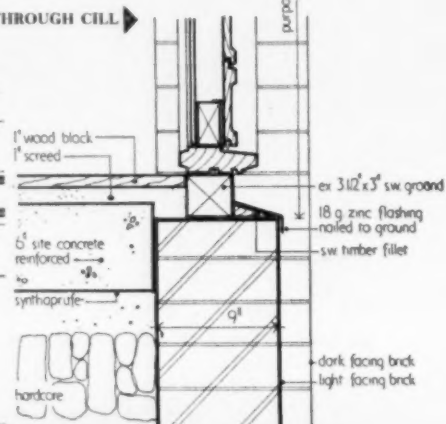
Below, one of the workshops. Window panel detail is shown above

WINDOW DETAIL WORKSHOP BLOCK



SECTION THROUGH EAVES

SECTION THROUGH CILL



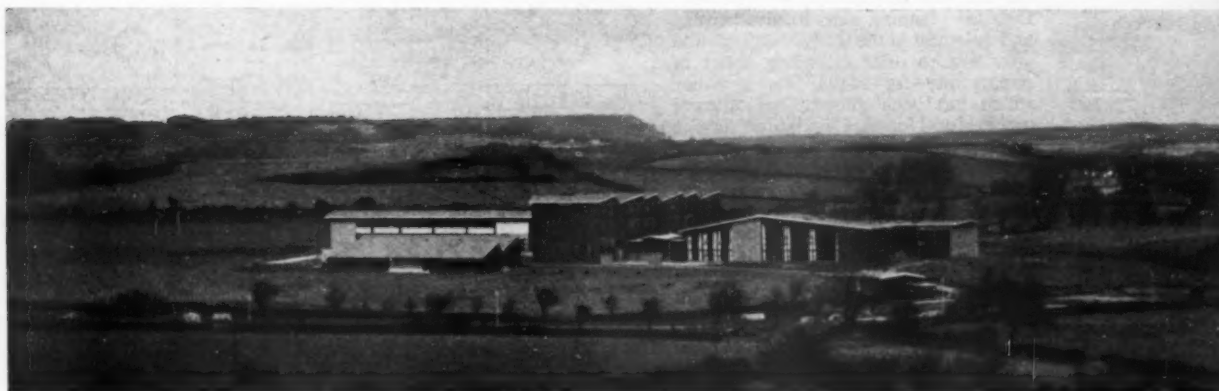
General Contractors:

F. SHEPHERD & SON LTD.

Sub-contractors and suppliers:

Asphalt Tanking and Built-up Felt Roofing: Joseph Hardgrave Ltd. Bitmac Paving: J. H. & J. C. Elliott Ltd. Cork Tile Flooring: The Asbestos & Rubber Co. Ltd. Cycle Stands: Le Bas Tube Co. Ltd. Electrical Installation: Dale Electric (Yorkshire) Ltd. Fire Fighting Equipment: Pyrene Co. Ltd. Galvanized Pressed Steel Sink: Frederick Braby & Co. Ltd. Gas Installation: North Eastern Gas Board. Grading and Grassing around School Buildings: Webster Bros. of Horsforth Ltd. Heating and Ventilation: Rosser & Russell Ltd. Ironmongery: Parker, Winder & Achurch. Laboratory Fittings and Classroom Cupboards: George M. Hammer & Co. Ltd. Mural Decoration in Assembly Hall:

Leslie Cant. Mural Decoration to Main Entrance: Harold Wood. Plumbing, Glazing and Cold Water Service: D. Maynard Ltd. Preparation of Playing Fields: En-Tout-Cas Co. Ltd. Prestressed Floors: Peirhead Ltd. Revolving Chalk Board: Wilson & Garden Ltd. Refrigeration Installation: Masscold Ltd. Rubberised Curtain: Hunter & Smallpage Ltd. Site Excavation: Sayers Contracts Ltd. Sliding and Folding Door Gear: E. Hill Aldam Ltd. Soil and Waste Storage: Eona Modern Products Ltd. Structural Steelwork: Foster Bros. (Preston) Ltd. Terrazzo, Wall and Floor Tiling: A. Andrews & Sons (Marbles & Tiles) Ltd. Timber Curtain Walling: Stephenson Developments (Huddersfield) Ltd. Trees and Shrubs: John Hill & Sons. Weatherstrips to External Doors: Chamberlin Weatherstrips Ltd. Wrought Iron Balustrading: H. Pickup Ltd. Wood Block and Strip Flooring: J. A. Hewetson & Co. Ltd.



Above, a general view of the school within its environment. Externally, two natural materials are expressed (dark brown brickwork deeply raked out, and hardwood) in keeping with the character of the surrounding Yorkshire moors

continued from page 828

Structure and finishes

Three-storey block: 9in brick cross-wall construction; hardwood timber curtain walls; double glazing to all classrooms. Timber roof trusses, joists and boarding (designed by TDA); floors prestressed concrete units with special edge sections to form a 'prow' on each bay; wood strip, wood block, or terrazzo floor finish. **Science block:** 9in brick cross-wall construction; roof—steel purlins, timber joists and boards. Hardwood timber curtain walls, with double glazing to all classrooms. Prestressed concrete floors with wood strip, wood block or terrazzo floor finish. **Practical block:** 9in brick cross-wall construction; specially designed timber stressed skin northlight roof; hardwood timber curtain walls with double glazing to all classrooms; wood block floors throughout. **Assembly hall:** A light steel frame construction with 13½in brick compression walls, timber joists and lattice beams to main roof and suspended ceiling. Hardwood timber curtain walls with quarter-plate glass throughout. Wood strip to ground floors; cork on first floor corridor and gallery. **Kitchen and changing rooms:** Loadbearing brickwork and light steel frame with timber joisted roof and prestressed concrete floor. Hardwood timber walls with 32oz single glazing. Quarry tile and composition tile floors throughout; floor to ceiling tiles throughout kitchen and shower rooms. **Gymnasium:** Selected softwood stanchions and Warren trusses spanning 55ft (designed by TDA). Hardwood curtain wall with Georgian wired glass. Maple strip floor.

COST ANALYSIS OF CONTRACT PRICES

| | |
|--------------------------------------|--------------|
| Tender date | July 1957 |
| Work started | October 1957 |
| Work completed | July 1959 |
| Tender price accepted | £236,174 |
| Highest tender price | £273,000 |
| Lowest tender price | £236,174 |
| Superficial area of building | 57,667 ft sq |

| | Total £ | % | Per F.S. s. d. |
|---|----------------|---------------|-------------------|
| Preliminaries & insurances | 5,363 | 2.39 | 1 10 |
| Contingencies | 8,850 | 4.28 | 3 1 |
| Foundations | 23,711 | 11.47 | 8 2 |
| Superstructure | | | |
| Frame | 2,903 | 1.40 | 1 0 |
| Upper floor & staircase | 12,823 | 6.20 | 4 5 |
| Roof construction | 17,281 | 8.36 | 6 0 |
| Roof lights | 1,058 | .51 | 5 |
| External walls & cladding | 27,401 | 13.25 | 9 6 |
| Windows & external doors | 1,376 | .67 | 6 |
| Internal partitions including glass | 7,973 | 3.86 | 2 9 |
| Internal doors including glass | 3,302 | 1.56 | 1 2 |
| W.C. partitions and doors | 439 | .21 | 2 |
| External glazier | 504 | .24 | 2 |
| Finishes | | | |
| Walls | 4,773 | 2.31 | 1 8 |
| Floors & skirtings | 14,387 | 6.96 | 5 0 |
| Ceilings | 4,198 | 2.02 | 1 5 |
| Decorations | 3,406 | 1.65 | 1 2 |
| Fittings | 14,613 | 7.07 | 5 1 |
| Installations | | | |
| External plumbing | 887 | .43 | 4 |
| Sanitary fittings | 1,540 | .75 | 7 |
| Internal plumbing | 5,711 | 2.76 | 2 0 |
| Heating & ventilating | 22,573 | 10.91 | 7 10 |
| Electrical | 15,205 | 7.35 | 5 3 |
| Gas | 650 | .31 | 3 |
| Drainage | 600 | .29 | 2 |
| External building works | 5,248 | 2.63 | 1 10 |
| Total | 206,775 | 100.00 | 71 9 |
| Total cost of job | £236,174 | | |
| Cost per ft super | 81s. 11d. | | |

hostel project for Glasgow

The Architect & Building News, 28 December 1960

A competition open to architects in Scotland and the north of England for the design of a Men's Hall of Residence on the Garscube Estate, University of Glasgow, was won recently by Grenfell Baines and Hargreaves. Here we publish part of a description of the scheme given by the designers in their report and the cost of various sections

THE design aims to fulfil the functional requirements of a hostel, achieving the best possible relationships of spaces for purpose with what is believed to be good architectural form in sympathy with the site and surrounding environment. Detailed planning aims to give privacy and quietness in the study bedrooms and after this to offer ascending scales of opportunity for social life, a policy which has been allowed to influence architectural forms. Circulations serving these dispositions of space aim to be direct and unmistakable from the main entrance at the heart of the scheme. A major design aim was to make the circulation system entirely enclosed, fully efficient in serving communal rooms while avoiding traffic through study bedroom areas. Consistent with planning aims, arrangements of space are designed to give the most economical methods of construction, using largely traditional load-bearing walls, still the most effective means of providing a large number of small spaces requiring quietness and privacy.

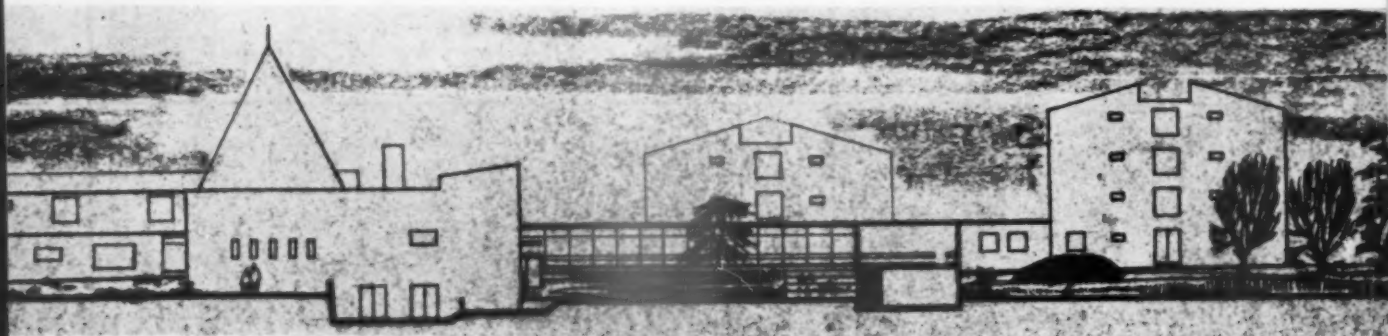
Site layout

Working outwards from the 'houses' and other groups of rooms has pro-

continued on facing page

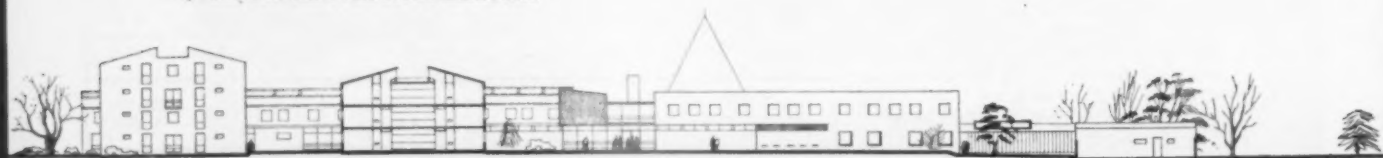


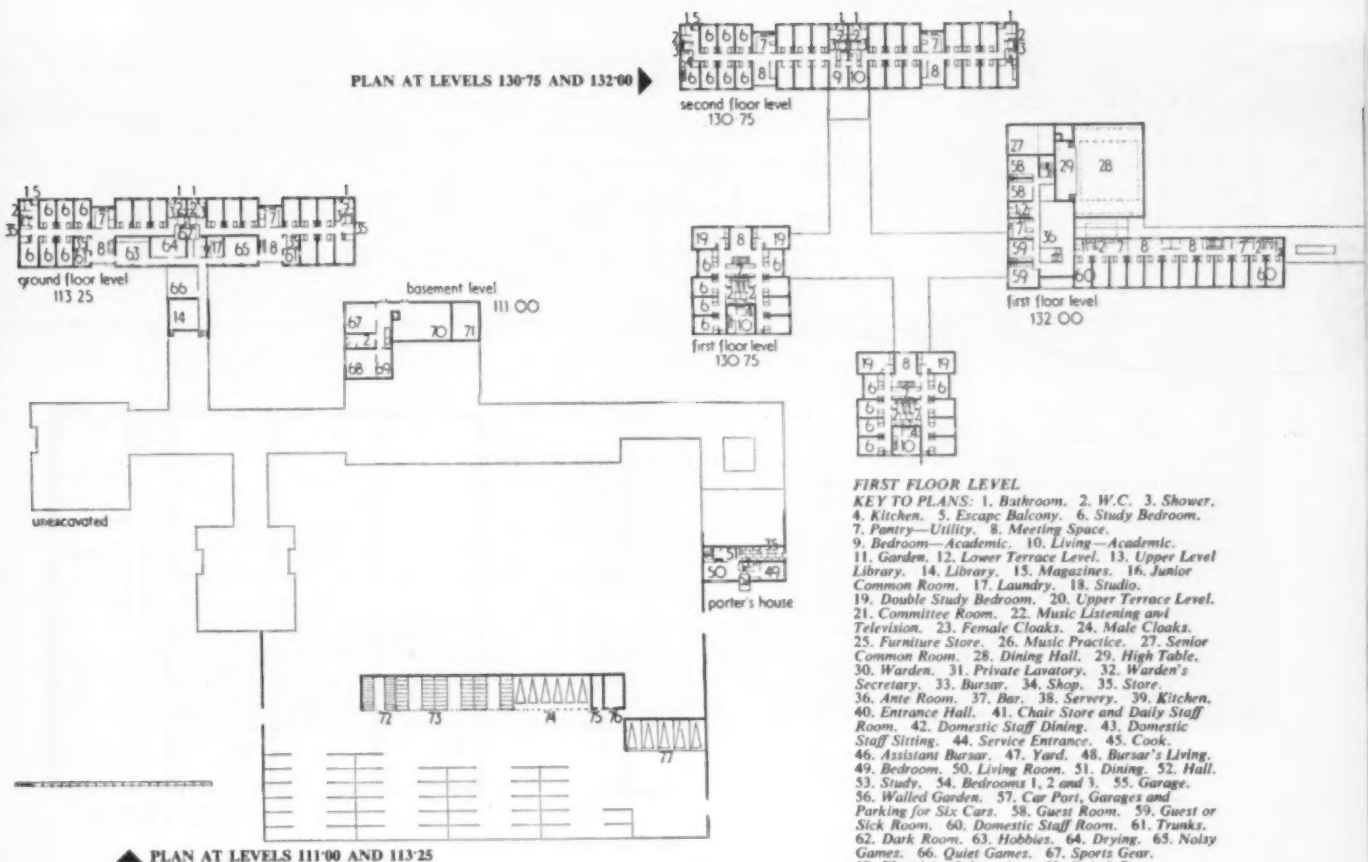
▲ PLAN AT LEVEL 122'00 SCALE: 1 IN = 96 FT



▲ SECTION THROUGH DINING HALL

▼ SECTION THROUGH STUDY BEDROOMS





PLAN AT LEVELS 111'00 AND 113'25

duced a layout characterized by courts which, while largely defined by buildings, have open sides to blend with the intimacy of the surrounding landscape. Most buildings lie along contours, not only for economical construction but an effect of repose. Differences in level encompassed by the buildings, are exploited to give interest to public rooms, ease of access to study bedrooms, and space for boiler house at the lowest level to leeward of the prevailing wind.

Planning

Visitors entering the building are immediately received by the porter and can readily be directed to any set of accommodation via the 'star' circulation system along which are grouped all communal rooms. The dining hall is nearest the main entrance, forming a natural point of focus. The bursar is in close proximity to the domestic administrative side in self-contained accommodation, while nearby the warden's house with walled garden is at once accessible, yet could be regarded as quite detached. It has been noticed that storage is largely an unsolved problem of Halls of Residence and, within the allowable areas, we have schemed trunk storage on the ground floor of the long block, large storage cupboards on each floor of the square blocks in the domestic block.

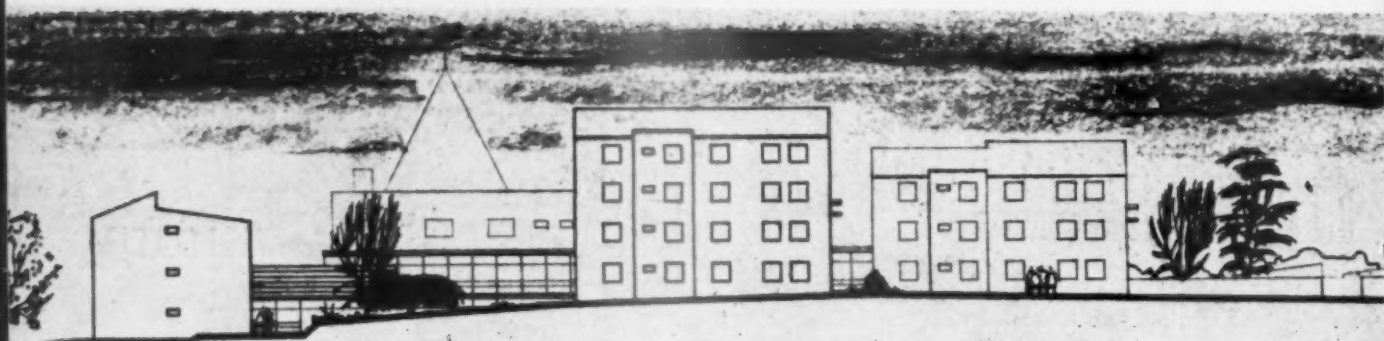
continued on page 834

COST ANALYSIS

| Study Bedrooms and Ancillary Accommodation—Three-Storey Longitudinal Block | | Per F.S. |
|--|---------|----------|
| Preliminaries, insurances and contingencies | | s d |
| Foundations | .. .. . | 4 4 |
| Structure | | |
| Upper floors and staircases | .. .. . | 5 2 |
| Roof | .. .. . | 2 9 |
| Rooflights | .. .. . | 4 |
| External walls | .. .. . | 5 0 |
| Windows and external doors | .. .. . | 2 0 |
| External glazier | .. .. . | 4 |
| Fittings | | |
| Internal partitions including load bearing cross walls | .. .. . | 6 0 |
| Internal doors | .. .. . | 2 10 |
| Finishes | | |
| Wall | .. .. . | 4 2 |
| Floor | .. .. . | 4 4 |
| Ceiling | .. .. . | 1 2 |
| Decorations | .. .. . | 2 5 |
| Fittings | .. .. . | 2 1 |
| Installations | | |
| External plumbing | .. .. . | 5 |
| Internal plumbing | .. .. . | 1 9 |
| Plumbing (sanitary fittings) | .. .. . | 2 6 |
| Heating and ventilation | .. .. . | 8 0 |
| Electricity | .. .. . | 4 9 |
| Siteworks | | |
| Drainage | .. .. . | 10 |
| Detailing design contingency allowance | .. .. . | 2 1 |
| Total nett cost | .. .. . | 67 7 |

COST ANALYSIS

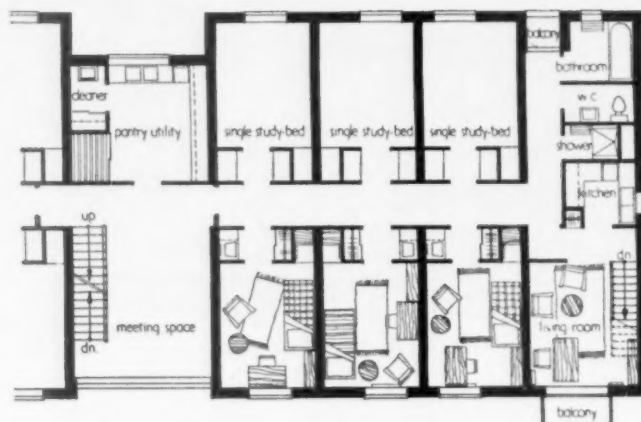
| Study Bedrooms and Ancillary Accommodation—Three- and Four-Storey Square Blocks | | Per F.S. |
|---|---------|----------|
| Preliminaries, insurances and contingencies | | s d |
| Foundations | .. .. . | 4 9 |
| Structure | | |
| Upper floors and staircases | .. .. . | 5 5 |
| Roof | .. .. . | 2 10 |
| Rooflights | .. .. . | 5 |
| External walls and cladding | .. .. . | 5 1 |
| Windows and external walls | .. .. . | 1 10 |
| External glazier | .. .. . | 3 |
| Fittings | | |
| Internal partitions and load bearing cross walls | .. .. . | 6 11 |
| Internal doors | .. .. . | 2 2 |
| Finishes | | |
| Wall | .. .. . | 4 8 |
| Floor and skirtings | .. .. . | 4 7 |
| Ceiling | .. .. . | 1 3 |
| Decorations | .. .. . | 2 0 |
| Fittings | .. .. . | 2 5 |
| Installations | | |
| External plumbing | .. .. . | 4 |
| Internal plumbing | .. .. . | 1 9 |
| Plumbing (sanitary fittings) | .. .. . | 2 7 |
| Heating and ventilation | .. .. . | 8 6 |
| Electricity | .. .. . | 4 9 |
| Siteworks | | |
| Drainage | .. .. . | 11 |
| Detailing design contingency allowance | .. .. . | 2 3 |
| Total nett cost | .. .. . | 69 8 |



continued from page 833

Study bedrooms

The study bedrooms themselves have been planned and would be constructed to give privacy and quietness. With this in view and to provide what has come to be seen in other schemes as a greatly appreciated amenity, all study bedrooms are planned with a washbasin-wardrobe ante, a double corridor wall in fact. Good outlook with or without sunny orientation, was also an aim to every room. Bearing in mind variety in room shapes, the groupings suggested by utility room provisions, planning to give as much quietness and privacy as possible, we have aimed at clusters of not more than twelve rooms at one level—six each side of a stair head.



▲ PART FLOOR OF STUDY BEDROOMS

COST ANALYSIS

| | Per F.S. s d |
|---|--------------------|
| Communal and Recreational Accommodation | |
| Preliminaries, insurances and contingencies | 4 2 |
| Foundations | 14 1 |
| Structure | |
| Upper floor and staircase | 1 5 |
| Roof | 9 5 |
| External walls and cladding | 9 2 |
| Windows and external doors | 10 |
| Fittings | |
| Internal partitions | 3 2 |
| Internal doors | 2 3 |
| Finishes | |
| Wall | 1 10 |
| Floor | 4 0 |
| Ceiling | 2 |
| Decorations | 3 0 |
| Fittings | 3 |
| Installations | |
| External plumbing | 2 |
| Internal plumbing | 1 9 |
| Plumbing (sanitary fittings) | 1 4 |
| Heating and ventilation | 5 8 |
| Electricity | 4 6 |
| Siteworks | |
| Drainage | 1 11 |
| Detailing design contingency allowance | 2 0 |
| Total nett cost | 71 1 |

COST ANALYSIS

| | Per F.S. s d |
|--|--------------------|
| Dining, Kitchen Accommodation and Administrative Accommodation | |
| Preliminaries, insurances and contingencies | 4 2 |
| Foundations | 8 7 |
| Structure | |
| Upper floor and staircases | 3 6 |
| Roof | 6 2 |
| Rooflights | 2 2 |
| External walls | 6 2 |
| Windows and external doors | 1 9 |
| External glazier | 6 |
| Fittings | |
| Internal partitions including load bearing cross walls | 5 10 |
| Internal doors | 2 1 |
| Finishes | |
| Wall | 3 9 |
| Floor and skirtings | 5 6 |
| Ceiling | 1 2 |
| Decoration | 8 0 |
| Fittings | 1 4 |
| Installations | |
| External plumbing | 8 |
| Internal plumbing | 1 9 |
| Plumbing (sanitary fittings) | 1 0 |
| Heating and ventilation | 8 0 |
| Electricity | 4 9 |
| Gas | 5 |
| Siteworks | |
| Drainage | 1 1 |
| Detailing design contingency allowance | 2 1 |
| Total nett cost | 72 5 |

COST ANALYSIS

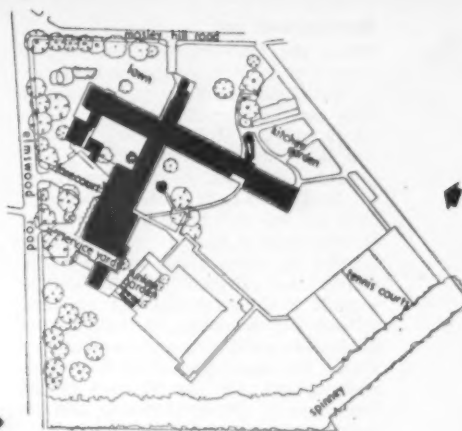
| Housing | | |
|---|-----------------------------------|----------------|
| 1. Warden's House 1,350ft super @ 50/- per ft super | | £3,375 |
| Covered way and yard | 240ft super @ 30/- per ft super | 360 |
| Garage | 180ft super @ 20/- per ft super | 180 |
| Total | | £3,915 |
| 2. Bursar's Flat | 550ft super @ 60/- per ft super | £1,650 |
| Covered corridor | 240ft super @ 30/- per ft super | 360 |
| Total | | £2,010 |
| 3. Porter's House | 678ft super @ 45/- per ft super | £1,525 10 0 |
| External Works | | |
| Including: Lock-up garages, Car port, Roads and road diversions, 3 No. cattle grids, Boundary walls, Paved yards, P.C. for landscaping, P.C. for gas, water and electricity | | 500 |
| Not including: Tennis courts, Parking area for 40 cars | | |
| Ancillary Accommodation | | |
| Accommodation provided in semi-basement | 2,025ft super @ 45/- per ft super | £4,556 5 0 |
| Total | | £13,618 |



hostel at Liverpool

University of Liverpool, client
 Hellberg and Harris, architects
 C. S. De la Mare, executive architect
 Langdon and Every, quantity surveyors
 Cairns and Byles, services engineers
 V. E. Vincent, building consultant

SITE PLAN



THE Liverpool University's new hall of residence for women occupies the site of two large houses near the top of Mossley Hill and a church which is a prominent feature of the Liverpool skyline.

The surrounding high stone walls, fine forest trees and many shrubs which adorned the gardens have been retained but fine views of the Mersey and, on a clear day, the Welsh mountains can be enjoyed from the upper floors as the site is very high; in fact, the buildings have deliberately been kept low so that they do not show above the trees or compete with skyline silhouette of the church tower.

Planning

The preservation of existing trees and the separation of the noisier communal

Entry from Elmswood Road



Photo: Stewart Bale Ltd.

continued on page 836

continued from page 835

rooms from the bedroom-studies has resulted in an elongated tee-form plan. The bedroom-studies are housed in three blocks of three storeys, almost in line, on the elevated ground at the top of the site, with the single-storey communal wing running at right-angles to them and stepping down the hill. The warden's office, senior common room and library, as the quieter elements of this wing, link the residential blocks to the students' common room and dining hall, which are thus well away from study areas. The communal rooms, with their 'butterfly' roofs, follow the hillside levels in three steps with ceilings of varying heights suited to the proportions of the rooms.

The central corridor arrangement of the bedroom-studies was preferred to the more traditional external access to bedrooms planned around individual staircases, and height was limited to three storeys for economical building and for simplicity of construction. The institutional character, which so often results from centre-corridor planning, is largely avoided by off-setting the blocks in three comparatively short lengths linked by staircases. The terminal walls of each corridor are coloured and used as floor indicators; thus the ground floor is green, the first red and the top blue.

Bedroom-study unit

While the University wished to have variety in room shape, economical considerations demanded some standardization and the repetitive form of the bedroom-study unit received great attention in the early planning stages.

When the unit layout was nearly finalized a full scale prototype unit was built on site and fitted with furniture. It was then criticized, modified, and studied in every detail until all concerned were satisfied. It served also as a guide to the workmen and was used to work out the design and assembly of the built-in wardrobes and the plumbing stacks. The expense involved was minor when spread over the 80 units of the first stage of the development and all unexpected extras were eliminated.

Each bedroom-study unit comprises two rooms, each for one student, a lobby and a bathroom. Each pair of students thus shares a bathroom, a provision which seems ideal, but possibly lavish. It has, however, been the contention of the University's advisers that this unit, planned in pairs around a plumbing stack was almost comparable in cost to the traditional washbasin in every room and communal bathrooms in every block. The cost figures for the building have proved this opinion justified.

The Bursar's and the four Tutors' flats are slightly larger than the double unit and have a kitchenette. They occupy both extreme ends of the residential group and form a terminal feature externally.

A sick bay for three students, an isolation room for one case and a nurse's room form a corresponding unit on the ground floor of the north block.

There are pantries, drying rooms and

continued on page 838



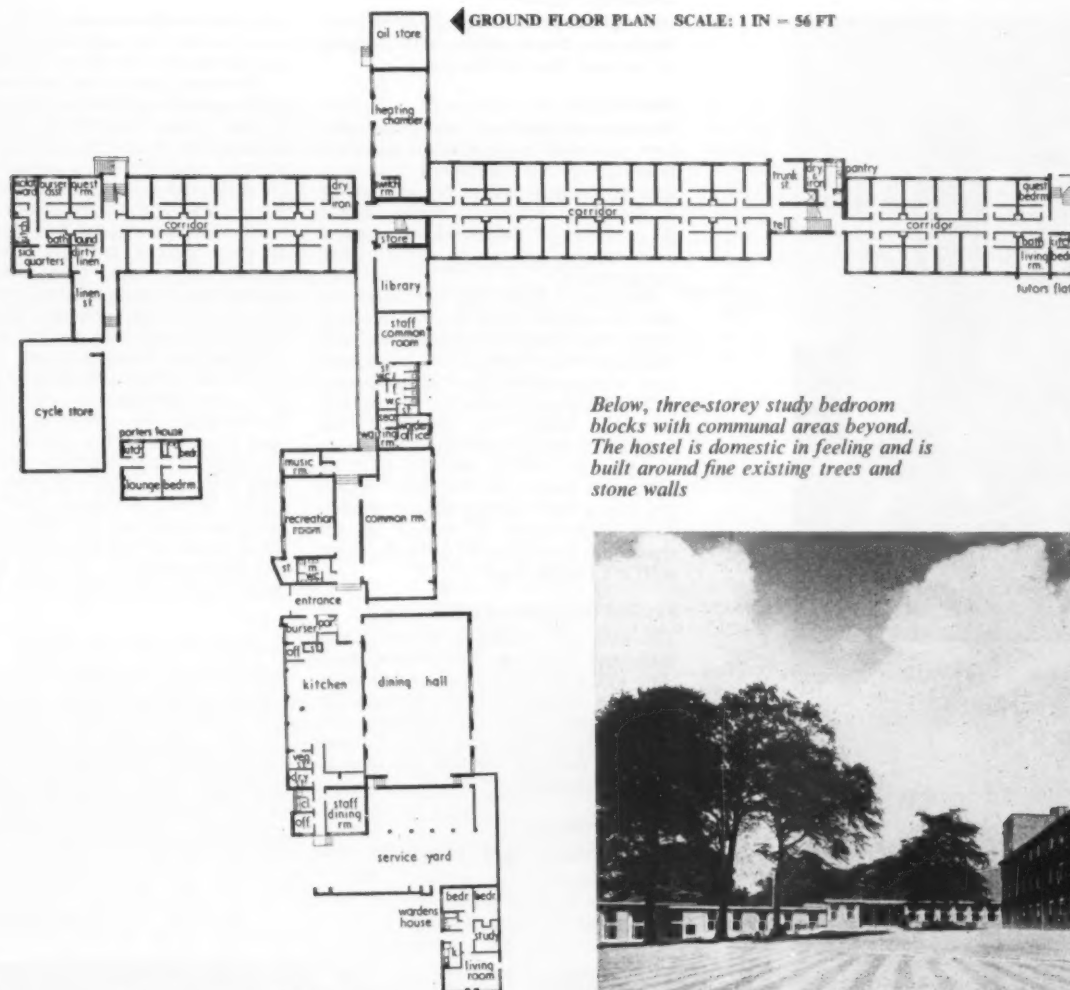
Above, the common room. Below, the main entrance hall. Furniture and fabrics throughout the building were chosen by the architects



Below, the dining hall. The 'butterfly' roof in communal rooms follows the hillside levels with ceilings of varying height suited to room proportions



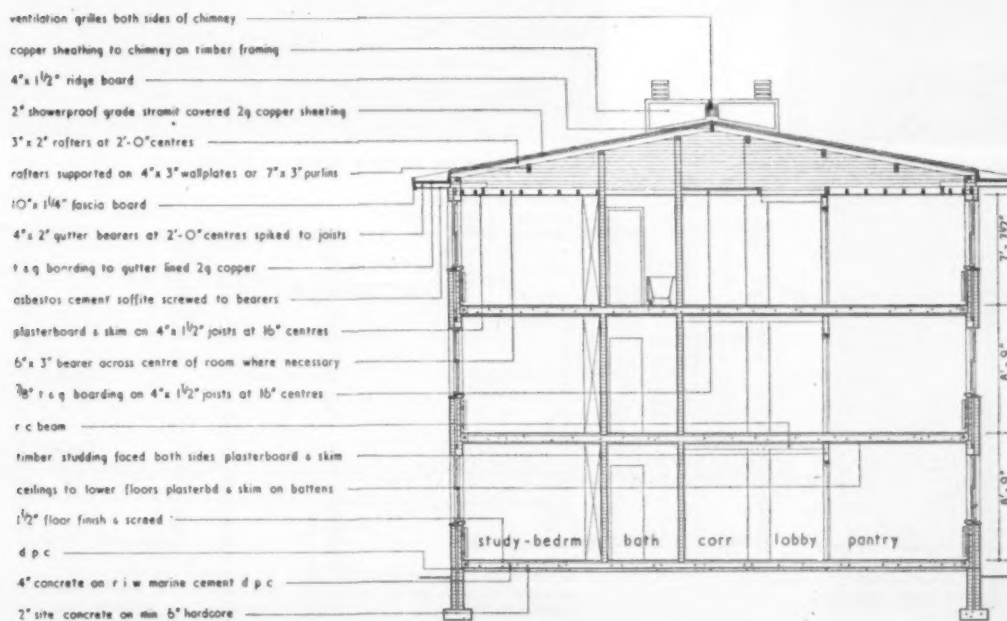
◀ **GROUND FLOOR PLAN** SCALE: 1 IN = 56 FT



Below, three-storey study bedroom blocks with communal areas beyond. The hostel is domestic in feeling and is built around fine existing trees and stone walls



▼ **DETAIL SECTION THROUGH STUDY BEDROOMS**



continued from page 836

ironing rooms on each floor of each block and trunk rooms with baggage lift on each floor of the group.

Construction

The construction has throughout been kept as simple as possible to make the building of the residential blocks as near to normal terrace house building as possible. Structure allows a full progression of trades, is economical and massive enough to resist sound transmission.

Bedroom studies are separated by 9in crosswalls with cavity external walls. The blocks have precast concrete floors and *in situ* stairs, with an insulated roof of compressed straw slabs covered with a built-up bituminous ply roof of 10 degree pitch. This is topped with Criggion green granite chippings.

Communal blocks are also of brick with steel beams for the larger spans, the dining hall having tubular trusses. Roof construction is similar to the residential blocks but of butterfly shape with a 5 degree slope.

External treatment and landscaping

The long low buildings of red-brown brickwork with their low-pitched roofs cling to the ground and are deliberately domestic in feeling. Built around the fine existing trees and utilizing the existing stone walls and other features wherever possible the hall has already an air of maturity.

Internal treatment

The architects were responsible not

only for the decoration of the interior but also for the selection of furniture and fabrics for the whole building.

The main aim in the bedroom-study blocks was the creation of individuality in the room decoration. This was achieved by the use of six basic colour schemes, each having a general colour for walls and ceiling, an accent colour for one wall and a door colour. To the basic colours could be added any one of six different curtains, four bedspreads, four rugs, four tables with plastic tops in tones of grey, four coffee tables with bright coloured tops, four easy chairs and four workchairs. The combinations were arranged to harmonize as universally as possible and very few proved to be unusable. Theoretically, no identical repetition need arise with such a variety, and yet the range of decoration and fabrics has been held well within economic limits.

The British Standard '101' colour range has been used for paints throughout and the task of selection of fabrics was made easier by the fact that this range is now influencing fabric colours.

General Contractors: BOVIS LTD.

Sub-contractors and suppliers:

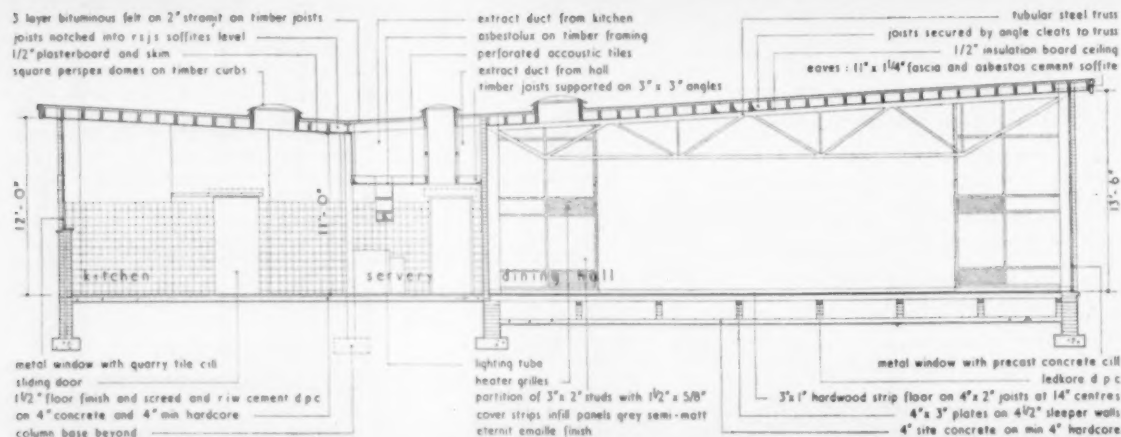
Electrical Installation: Grierson Ltd. Flooring: Korkoid Decorative Floors Ltd.; Hollis Bros. Ltd.; Stonewood Flooring Co. Ltd. Furnishings: Primavera; Liberty's Ltd. Heating and Ventilating Equipment: Engineering Service Installations Ltd. Ironmongery: Quiggin Bros. Ltd. Kitchen Equipment: James Stott & Co. Ltd. Landscaping: P. & E. Wenk. Metal Windows: John Gibbs Ltd. Plastering: Adamite Co. Ltd. Plumbing: Shaw & Evans Ltd. Precast Concrete Floors: Pierhead Ltd. Roofing: William Bruges & Sons Ltd. Sanitary Goods: J. Bolding & Son. Tiling: R. A. Davison & Co. Ltd.

The porter's house



Study-bedroom and bathroom

DETAIL SECTION THROUGH DINING HALL SCALE: 1 IN = 10 FT



a new space heating system

The Architect & Building News, 28 December 1960 839

The system of space heating described below is specially designed for the smaller house and is the latest of the Ductair units produced by Bratt Colbran Limited

A NEW low-cost warm air central heating unit, the gas-fired G105/23, from Bratt Colbran Limited, a Radiation company, is now in production.

Designed for the popular-sized house, bungalow, maisonette or flat, the unit is contained within a rectangular cabinet, measuring 32in long, 23½in high and 14½in deep, small enough to fit on a kitchen wall or inside a cupboard. It has an output of 23,000 B.Th.U/hr, providing full heating for a living space of up to 5,500 cu ft. Alternatively, it will give full heating for a smaller living space and background warmth for bedrooms.

Encased in a steel cabinet finished in stoved enamel, the unit consists of a gas burner, heat exchanger and an electrically driven fan. An integral governor and thermo-electric valve-type flame failure control, embodying overheat protection (manual reset), are fitted.

Control is fully automatic, the only manual operations being the press button ignition, the setting of the room thermostat to the desired temperature and the opening and closing of the warm air registers in the rooms to be heated. In a house of 1,000 sq ft floor area, insulated to the Egerton standard of insulation, the Ductair G105 will provide background warmth throughout the house at all times and full heating up to 67 deg F, in the living area for 8 hr per day for an annual fuel consumption of about 400 therms of gas. Warm air can also be directed to a clothes drying cupboard.

In summer when the heater is not in use the unit can be used to circulate air within the house.

Costs

Average installed cost of the unit in a 1,000 sq ft house is from £95 to £135 according to length of ducting required.

Running costs for space-heating only would be likely to average £27 to £36 per annum. With gas water heating included by means of a suitable boiler, such as the Ascot multipoint or New World Circulyn, operating costs would be from £40 to £50.

Installation at Windsor

An example of the heating capacity of the new gas-fired Ductair G105/23 central heating unit is provided by the installation in a house erected at Hatch Lane, Windsor.

The Ductair G105 unit, contained within a compact rectangular cabinet no bigger than a travelling trunk and finished in white enamel, is fixed on the kitchen wall at high level to avoid wasting floor space.

Its installation demonstrates the way in which the balanced flue model facilitates the introduction of the unit in a house of existing design. It has been connected to a balanced flue passing through the kitchen wall to an outside terminal.

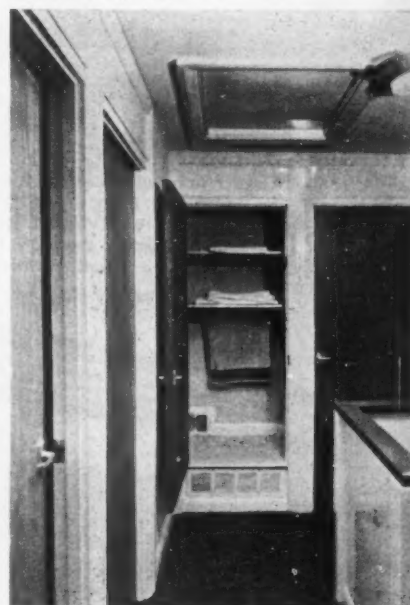
Newly developed lightweight ducting, prefabricated from expanded polystyrene and embedded in the concrete floor slab during construction, runs the length of the hall to carry warm air to the lounge, dining room, kitchen and hall, each of which has its own inlet register.

Similarly, at first floor level, metal ducting carries warm air to registers in each of the three bedrooms, and to a clothes drying cupboard at the head of the stairs. Through a false bottom in this cupboard, return air is ducted back to the unit for re-heating.

Control of temperature throughout the house is maintained by means of a thermostat on the wall of the dining room and the use of the inlet registers, which can be opened or closed as required, to give whole-house or selective room heating.



The unit (above) is small enough not to present any problems in a small kitchen (see plans)



Above, the airing cupboard with return air feed at the base. Below, dining room thermostat and heater

key

- WARM AIR REGISTER
- RETURN AIR GRILLE
- WARM AIR DUCT (METAL)
- WARM AIR DUCT (CONCRETE)
- RETURN AIR DUCT



composite beam design



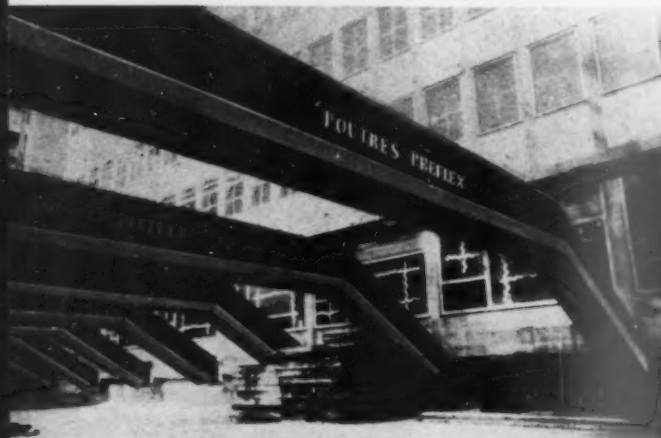
Above, bus station in Brussels (temporarily in use for car exhibition). Beams here form a double portal supported on centre columns and span 52ft (beam depth 2ft 3in)



'Hogebrug' road bridge at Dixmude; span 70ft, beam depth 2ft 8in. Below, another road bridge at Mons; centre span 53ft, beam depth 2ft. Outer spans are reinforced concrete



Below, use of beam section in a Mansard roof. Right, a pair of 98ft beams in position for preflexing



A NEW development in constructional engineering is announced by the Boulton and Paul Group, whose resources for structural steel and prestressed concrete engineering have been combined to manufacture a beam of new design. Known as Preflex, the beam utilizes high-tensile steel and high-grade factory concrete to provide a high load-bearing capacity on a greater range of span to depth ratios than has previously been economically possible.

For many years, structural engineers have used high-tensile steel, but the span to depth ratios possible have been limited. Similarly prestressed concrete has been employed to advantage in many types of structure, but has not been found to be the best solution where a high load-bearing capacity was required or where rigidity had to be combined with a low construction depth in large spans. Such limiting factors have encouraged the development of Preflex beams which combine the best features of high-tensile steel and concrete.

It is possible to stiffen a steel joist with an ordinary concrete casing, but when such a beam is loaded to its working stress the concrete around the tension flange becomes tensioned with the steel, loses its stiffening value, and in many cases is subject to severe cracking. These defects are eliminated with the new beam.

During manufacture the steel joists are preflexed to take up a similar curvature to that produced by their full working load, the following being an outline of the process. Two joists are clamped together at quarter points, one about 18in above the other, and the ends are pulled together with hydraulic jacks and sling bolts. Whilst held in this position the joists are placed in a specially designed frame where concrete casings with mild steel reinforcement are cast in moulds around the tension flanges.

The beams are slowly released when the concrete has hardened and their elastic recovery causes the concrete to

become compressed, with a corresponding reduction of stress in the steel joists and a greatly increased stiffness. Thus when the beam is subjected to working load as part of a structure the concrete casing is decompressed, with no possibility of cracking. Furthermore, the range of stress under load is reduced, giving the beam increased resistance against fatigue. After erection, rigidity is further increased by encasement of the remaining steel profile of the beam. This secondary casing normally forms part of the structure, i.e. the road slab in the case of a bridge, or floors in a building.

Preflexing each steel joist to the maximum design stress, that is to say bending the steel joist so that the maximum allowable stress is induced in the outer fibres over half the span of the beam, is equivalent to load testing each beam before it leaves the works. The measurement of deflections at all stages of preflexing affords a means of further checking by comparison with calculated values.

Preflex beams can be incorporated into any form of construction, whether structural steelwork, reinforced or prestressed concrete, since the final beam is composite and connections will be of the normal beam end type for steelwork and monolithic in the case of concrete. Holes can be provided in the webs of the beams to allow such services as heating, ventilating or air conditioning ducts to pass within the construction depth of the floor. The elimination of tension cracks in the concrete casing means that complete protection is given to the steel joists against attack by fire and corrosion.

The new beam was invented in Belgium, and since 1951 has been used with great success there and in many other continental and overseas countries in the construction of numerous commercial and administrative buildings, garages, schools, hospitals, exhibition halls, factories, tunnels and bridges.



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For area 1, Telephone Stockton 65291; for area 9, Telephone Falkirk 2441; for all other areas Telephone Wellington (Salop) 510.



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● T. & G. Construction Co. Ltd., a member of the Tarmac Group of Companies, have been awarded a £285,000 contract by the Sunderland Corporation for the construction of a new abattoir. The scheme comprises: (1) sheep and cattle lairage 90ft long by 156ft wide by 19ft high; (2) slaughter halls, stalls and boiler house 159ft long by 85ft wide; (3) pig lairage attached to slaughter hall 45ft long by 28ft wide; (4) administration block 130ft long by 31ft wide; (5) meat market together with frozen meats area, refrigerated cooling area and offices 95ft long by 182ft wide. Completion is due in 18 months' time.

● The Royal Sovereign Pencil Co. Ltd. are to pay a further six months' arrears of Preference dividend on December 31, 1960.

● The managing director of Abbigill (Pvt) Ltd., of Salisbury, Rhodesia, a subsidiary of H. Inledon & Co. Ltd., will be in London from January 3 to 15, 1961. The purpose of his visit is to contact manufacturers of hardware who wish to extend their export activities into the Rhodesian field. Interested parties should address correspondence for his attention to H. Inledon & Co. Ltd., Imperial Buildings, 56 Kingsway, London, W.C.2 (telephone: Holborn 2833).

● A new fully equipped warehouse of Nevill Long & Co. (Boards) Ltd. is now nearing completion and their directors state that it will enable an even more efficient service to be provided from 1961 onwards.

● The Metal Box Co. Ltd. show a group profit, before deducting taxation, of £4,413,000 for the half year to September

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(7.30 p.m.); February 15—Kimbells Ltd., Osborne Road, Southsea (7.30 p.m.); February 16—Hotel Metropole, Brighton (7.30 p.m.). Invitations may be obtained from Aerialite Ltd., Castle Works, Stalybridge, Cheshire.

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● Samuel Osborn & Co. Ltd. show a net profit of £690,968 for the year ended July 31, 1960. The ordinary dividend for the year is 35 per cent, less tax. Mr. A. Hutchinson, Mr. R. F. Horton and Mr. I. G. Buchan, CA, have been appointed directors of the parent company.

● Joseph Lucas (Industries) Ltd. show a net profit for the year ended July 31, 1960, of £2,923,424, compared with the previous year's result of £2,527,437.

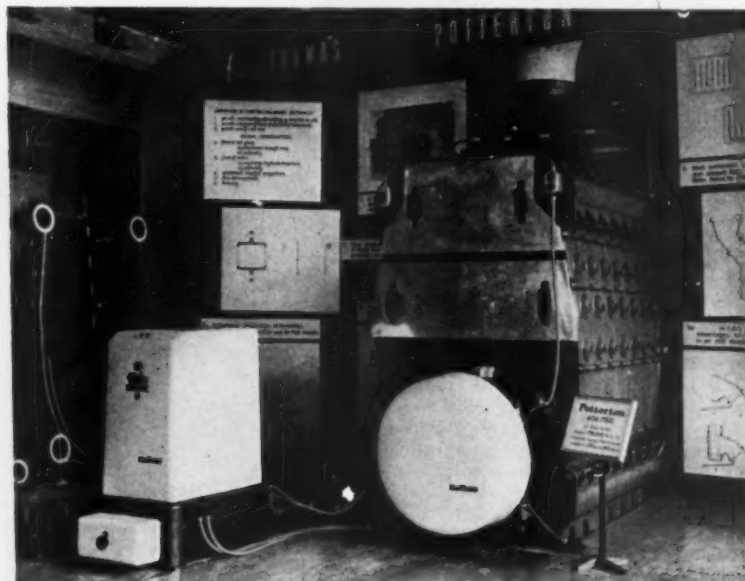
● Spurling Motor Bodies Ltd. show a group net profit for the past year of £255,493, compared with the previous year's result of £138,370. A final ordinary dividend of 7½ per cent is to be paid, making a total distribution of 25 per cent for the year.

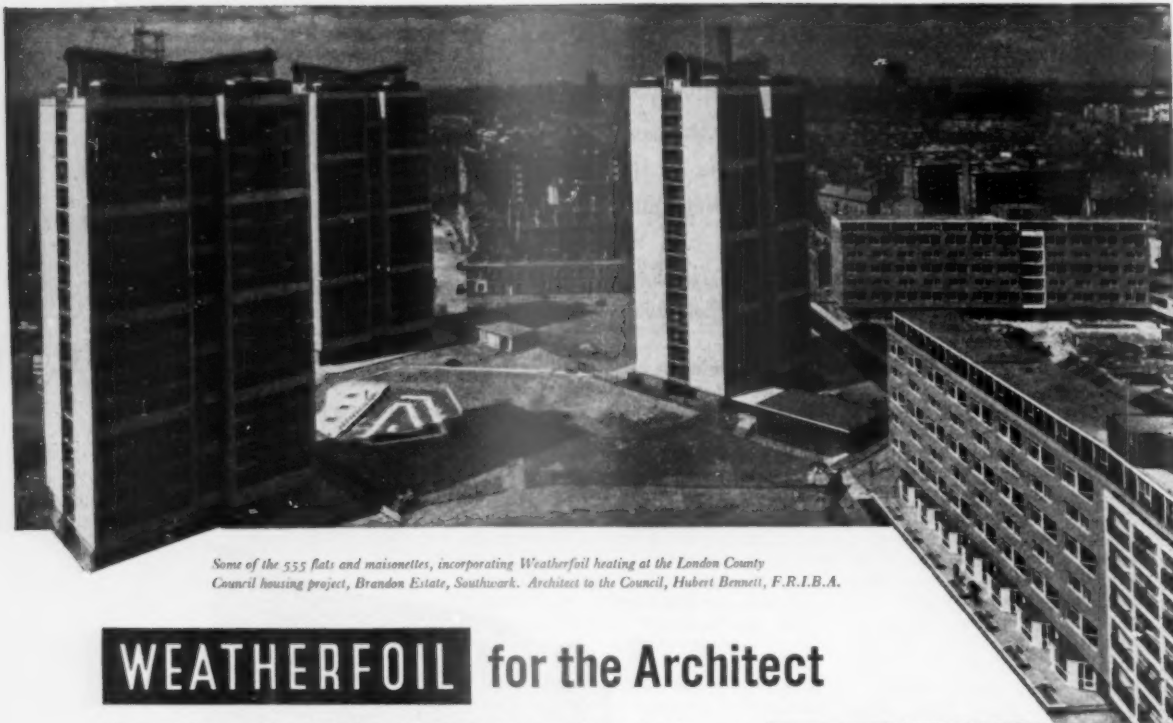
● R. & J. Dick & Co. Ltd. show a net profit of £70,234 for the year ended August 31, 1960, compared with the previous year's result of £43,126. The dividend has been raised from 30 per cent to 35 per cent.

● Spark Holdings Ltd. show group trading profits for 1959/60 of £210,933, compared with the previous year's result of £52,440. A final dividend of 30 per cent is to be paid, making a total distribution of 50 per cent.

● Sir Leonard Sinclair has joined the board of Pirelli Ltd.

Prototype from the Potterton GOA series of oil-fired boilers (right) and control box (left). This unit was described in 'New Products' (A & B N 28.9.60.), when the control box only was illustrated. The prices quoted on that occasion include the boiler, flue-hood and outlet, automatic draught control, burner and control box





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● T. & G. Construction Co. Ltd., a member of the Tarmac Group of Companies, have been awarded a £285,000 contract by the Sunderland Corporation for the construction of a new abattoir. The scheme comprises: (1) sheep and cattle lairage 90ft long by 156ft wide by 19ft high; (2) slaughter halls, stalls and boiler house 159ft long by 85ft wide; (3) pig lairage attached to slaughter hall 45ft long by 28ft wide; (4) administration block 130ft long by 31ft wide; (5) meat market together with frozen meats area, refrigerated cooling area and offices 95ft long by 182ft wide. Completion is due in 18 months' time.

● The Royal Sovereign Pencil Co. Ltd. are to pay a further six months' arrears of Preference dividend on December 31, 1960.

● The managing director of Abbigill (Pvt) Ltd., of Salisbury, Rhodesia, a subsidiary of H. Incedon & Co. Ltd., will be in London from January 3 to 15, 1961. The purpose of his visit is to contact manufacturers of hardware who wish to extend their export activities into the Rhodesian field. Interested parties should address correspondence for his attention to H. Incedon & Co. Ltd., Imperial Buildings, 56 Kingsway, London, W.C.2 (telephone: Holborn 2833).

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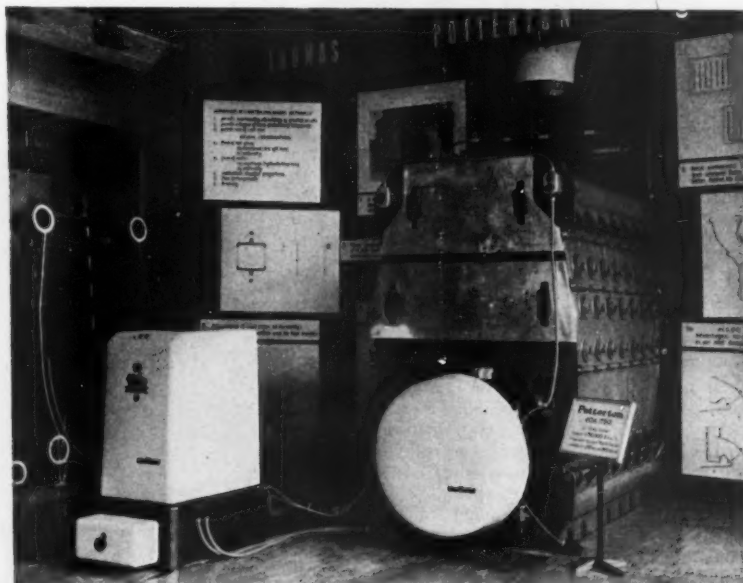
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In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements made to the existing ones. Any advantages claimed on behalf of the products are taken from information given by the manufacturer

New Lynx Automatic Cistern (A)

An automatic cistern made from resin-bonded rubber and intended for use on outside installations which are exposed to the weather, has been introduced to the Lynx range of sanitary equipment. The cistern is available in 1 and 2gal sizes but 3 and 4gal models will be added later. The new model is claimed to be virtually unbreakable, unaffected by acids, alkalis or salt water and impervious to climatic conditions and dampness. The new Lynx is streamlined in appearance and has a fastened-down lid to keep out dust and other foreign matter. Siphon mechanism is fitted to conform with BSS 1876.

Shires & Co. (London) Ltd.,
Greenbottom Works, Guiseley, Yorks.
Readers' Information Service
Ref. A. 28/12/60.

Combined Cooker and Refrigerator (B)

The CannonLux combined gas cooker and refrigerator has been produced jointly by Cannon (G.A.) Ltd. and Electrolux. It has been specially styled for fitting into any place where space is limited. It provides a giant-size four-burner hotplate, a combined oven and grill chamber with a built in 'Sixteen' gas refrigerator with 3½ sq ft of shelf area and 1½ cu ft capacity. These are merged into a compact kitchen unit which will fit into 21in by 25in of floor space. CannonLux is designed to fit flush to the wall and comprises: (a) hotplate mounted over the refrigerator, 34in from the floor, giving cooking area of 20½in wide by 20½in deep. The four hotplate burners will accommodate four 10in pans and light automatically. The two back burners are specially designed for simmering. The hotplate is completely sealed to prevent spillage seeping below; (b) an oven with twin doors which do not project over the hotplate when they are open. This is considered large enough to cater for a family party; (c) the grill chamber which can be formed by fitting a removable grill to the top of the oven and which can be removed again when the oven only is required. A specially designed locking device prevents either the grill or oven burner being turned on when the other is in use. The grill is large enough to cater for four persons; (d) the plate shelf fitted under the oven can accommodate six to eight plates; (e) the Electrolux gas refrigerator which has two removable door shelves for bottles, butter and eggs and ice compartment holding an ice tray which provides 44 pieces of ice. Alternative specifications of the cooker section of the CannonLux are also available. Instead of the oven/grill chamber the Cannon Foldaway High Level Grill can be supplied which folds into the splashplate when not in use. The oven can be supplied

separately so that it can be fixed to the wall alongside the CannonLux or in any other convenient position. The plate rack can be fitted over the hotplate and for this model, a combined oven and grill chamber is available as a separate unit for fitting to the wall. Finish is all white or all cream. Price of basic unit with combined oven and grill chamber is 72 gn. CannonLux will shortly be available from gas showrooms.

Cannon (G.A.) Ltd.,
Deepfields, Bilston, Staffs.
Bilston 41241.
Electrolux Ltd.,
419 Oxford Street, London, W.1.
Hyde Park 1616.
Readers' Information Service
Ref. B. 28/12/60.

Small Bedroom Heater (C)

The small bedroom heater is a convector type unit designed for heating small secondary bedrooms. For safety purposes, it has fine mesh grilles and the heater base is completely closed. It is thermostatically controlled and has a loading of only 750W. The heater can be used either free standing or wall mounted as both wall brackets and legs are provided. There is a pilot lamp included which can also be used as a night light in children's bedrooms. Overall dimensions: 24in high by 16in long by 5½in deep. Finish: pastel blue with a pearl grille (a Teddy Bear motif can be applied to the case if the heater is needed for children's bedrooms). Voltage ranges: 200/220 and 230/250V a.c. Price: £7 19s 4d.

Morphy-Richards Ltd.,
50 Conduit Street, London, W.1.
Regent 4080.
Readers' Information Service
Ref. C. 28/12/60.

Air Conditioning Units

The University range of industrial air conditioning units comprises nine different models, all of which can be either air or water cooled. They provide a continuous supply of clean fresh air and their controls can be pre-set to obtain close limit control of humidification and temperature. They may be located in or adjacent to the air conditioned space or, if floor space is restricted, mounted on wall shelving or suspended from the ceiling. They are claimed to be equally effective whether installed against a wall or in the centre of a room. The outer casing is of m.s. sheeting and is acoustically lined. Air grilles are adjustable and the complete case lifts off for servicing. An inner frame houses the complete refrigeration system, heaters, humidifier and air filters. Models 1, 2 and 3 are each produced in three versions, F



The CannonLux combined gas cooker and refrigerator (B)



Lynx automatic cistern (A)

Small bedroom heater (C)



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(floor-mounting), C (ceiling type) and U (upright model). These have respective cooling figures of 11,500, 23,000 and 34,000 B.Th.U/hr (water cooled) and 10,000, 20,000 and 30,000 B.Th.U/hr (air cooled). Relative maximum air supply is 600, 1,200 and 1,800 c.f.m. Electrical loads: 5, 10 and 15 kW. Overall measurements: No. 1—43in by 27in by 12in; No. 2—55in by 27in by 12in; and No. 3—67in by 27in by 12in. (N.B. These measurements represent length by height by width for types F & C and height by width by depth for type U.)

*Air Process Units Ltd.,
3 Tottenham Street, London, W.1.
Langham 5701.
Readers' Information Service
Ref. D. 28/12/60.*

★

Plastics Shower Cubicle (E)

The Halo shower cubicle is a corner fitting unit made from glass fibre reinforced plastics. It is finished in white or pastel colours and supplied with floral pattern or plain curtains and chromium plated plumbing fittings. It can easily be placed in a bedroom whilst doubles and quartets can be made up for use in situations such as holiday camps, schools and factories. The plumbing fittings include an anti-scald mixer valve but alternative valve arrangements can be made. Finish: durable gloss. Height: 7ft 6in. Width: Base—3ft 7½in. Waste fitting: 1½in outlet. Inlet: copper piping size—½in. Price: £49 10s.

*Reinforced Plastic Developments,
Middle Street, Shere, Surrey.
Shere 229.
Readers' Information Service
Ref. E. 28/12/60.*

★

Dust control units (F)

The Unimaster H type unit dust collector has been produced for the handling of bulky or granular materials. The unit is fitted with an angle flange at the base of the filter chamber so that it can be mounted on large storage containers which may be made up from materials such as timber, chipboard and sheet metal, providing they are airtight. There are four models of the H type unit with filter areas of 70, 100, 150 and 250 sq ft and with fan capacities up to 2,000 c.f.m. Illustrated is a 250 H model mounted on a dust storage container made up from chipboard and timber, and fitted with a door for periodic emptying. Adaptations of this type would be particularly useful in the woodworking industry where the normal 4 cu ft dust container is often too small. A patent sack-tipping attachment is available for situations where sacks of dusty materials have to be emptied by tipping into a floor orifice. The H type unit can also be fitted on top of hoppers with rotary valves for tailing the collected dust back into conveying systems, an adaptation suitable for use in the flour and provender industry.

*Dallow Lambert & Co. Ltd.,
Thurmaston, Leicester.
Syston 3333.
Readers' Information Service
Ref. F. 28/12/60.*

Improved Kitchen Units

The suppliers of KaroLine kitchen units, K. L. Cobb Ltd., have entered into an agreement with H. Scully Ltd. and formed a joint trading company, Karoline Classic Ltd. H. Scully Ltd., the furniture manufacturers, are planning the manufacture and distribution of the units and delivery times will shortly be considerably reduced. The units themselves are to be modified and improved and the finish will henceforward be entirely in melamine plastic. All parts inside and out which are not faced with melamine laminate will be sprayed with melamine. Even the drawers will be sprayed inside with clear melamine. The doors and drawer fronts, as well as worktops, are faced with Arborite, a Canadian laminate, and even the kicking strips along the front of the plinth bases of the floor units are faced with Arborite. The top-hung sliding doors, a feature of the Mark II range, are being retained, with the improvement that aluminium track and nylon runners will now be employed. The doors will also run on nylon guides. The 42in wide sink cabinet will have a reversible drawer and dummy panel. All single units will be fitted with Pland stainless steel sink tops but they can now be supplied to take virtually any 63in by 21in or 42in by 21in stainless steel or porcelain enamel sink and drainer. Standard finishes: Bodies, white; Doors, drawers and worktops: horizon blue, lemon yellow, sprout green, blossom pink, willow grey and Sno white.

*K. L. Cobb Ltd.,
Bridge Wharf, Bishops Bridge Road,
London, W.2.
Paddington 4057.
Readers' Information Service
Ref. G. 28/12/60.*

★

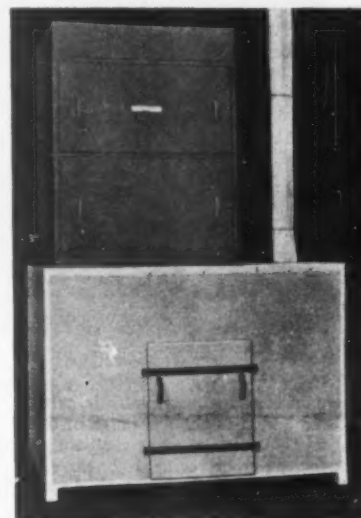
Floor Maintenance Machine (H)

The Triumph floor maintenance machine is only half the size of ordinary models with the same working capacity. Changes of attachment make the machine suitable for suction sweeping/polishing, waxing, dry cleaning, waterless scrubbing, wet scrubbing and sanding. Pre-sweeping is unnecessary and it can be used with the Progress Wardmaster special hospital dust bag with disposable bacteria-proof paper filter. The Triumph has a bristle tip action of 2,800 vibrations per min and an oscillating splayed brush works right into the skirtings. The machine has a ½ h.p. direct drive motor, with no gears, pinions or belts. It is claimed that the Triumph will remove black rubber burn marks and when used as a waterless scrubber will clean and maintain thermoplastic, P.V.C., linoleum, rubber and terrazzo. Capacity: suction polishing and sweeping—3,500 sq ft/hr; scrubbing—2,000 sq ft/hr. Current consumption: 400/500W. Weight: 47lb. Suction: 75 cu ft/min airflow. Cable: 30ft 3-core heavy duty. Overall dimensions: 7in high to top of motor, 11½in dia.

*Progress (Universal) Ltd.,
590-594 Wandsworth Road, London, S.W.8.
Readers' Information Service
Ref. H. 28/12/60.*



The Halo shower cubicle (E)



Unimaster unit dust collector (F)

Triumph floor maintenance machine (H)



Vinyl Coated Fabrics (I)

Sirocco is the latest design to be added to the Everflex range of P.V.C. coated fabrics. Everflex is suitable for furniture, upholstery or wall covering. It is breathable and hard wearing material and yet has the feel and appearance of a woven fabric. It is supplied in widths of 50in, to any length. Sirocco, the newcomer, is available in green, red or blue, i.e. light shade on a dark shade.

Bernard Wardle (Everflex) Ltd.,
Pebble Mill, Caernarvon, North Wales.
Caernarvon 3243.
Readers' Information Service
Ref. I. 28/12/60.

*

Vinyl Floor Covering (J)

Patrician sheet vinyl flooring material is the latest addition to the Corlon range of such products. It has a hydrocord backing which is claimed to be impervious to alkaline moisture and therefore to be suitable for laying on direct to earth-screeded concrete, including basements, provided that there is no danger of hydrostatic pressure or excessive moisture. Patrician is available in five colours—ivory, rose taupe, white, celadon green and multi-beige. The patterning effect is one of random-shaped chips surrounded by clear grout, with pearlescent accent chips. It is available in 6ft wide rolls.

Armstrong Cork Co. Ltd.,
Bush House, Aldwych, London, W.C.2.
Covent Garden 1101.
Readers' Information Service
Ref. J. 28/12/60.

*

Plan File Cabinet (K)

A neat and inexpensive plan file cabinet has been added to the CC range of office furniture. It is of double elephant size and can be supplied with either three, six or nine drawers. Drawers have louvred recessed mouldings which act as finger grips. Dimensions of all three models are 4ft long by 3ft wide by 3ft high. Finish: oak or mahogany. Prices: £27, £33 and £44.

Carson Bros. (Productions) Ltd.,
Desk House, Honywood Road, Basildon,
Essex.
Basildon 20244.
Readers' Information Service
Ref. K. 28/12/60.

*

Electric Shaver Supply Socket (L)

The Chilton Mk.IV electric shaver supply socket has been produced to provide an immediate source of power at the right voltage rating. There are domestic and commercial models suitable for flush or semi-flush wall mounting and they will accommodate most shaver plugs of British, American or Continental origin in a single multi-pin socket outlet. The commercial model is a dual voltage unit providing either 230V or 115V a.c. supply at the flick of a voltage selector switch. The domestic or single voltage unit provides

only a 230V a.c. supply, the switch in this case gives ON/OFF selection. Both units have a 20W double wound transformer with separate primary and secondary windings permitting an earth-free a.c. supply at mains frequency. It is claimed that the units can be located where the ordinary outlet would be considered unsafe, since the output has no direct connection to the mains supply. There is a self-resetting thermal trip in the transformer input to protect the unit from overheating. Both units are made of grey plastic and have the same basic shape and appearance. Overall dimensions: 5½in high by 3½in wide by ¾in deep. Price: £3 19s 6d (domestic), £4 12s 6d (commercial).

Chilton Electric Products Ltd.,
Hungerford, Berks.
Hungerford 237.
Readers' Information Service
Ref. L. 28/12/60.

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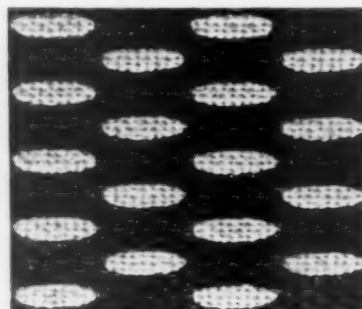
Corrosion-resistant Pipes

The Epoch pipe system, comprising high-pressure corrosion-resistant reinforced plastic pipes and fittings, has been produced with the object of providing long-term, trouble-free installations in the oil, chemical, atomic energy, petroleum, gas and brewing industries. The makers consider that the pipes and fittings are also suitable for sewage disposal and the handling of effluents and, in fact, wherever corrosive liquids or soils are involved. Epoch pipe is made from thermo-setting epoxide resin, reinforced with high-strength glass and acrylic fibres. During manufacture, the resin-impregnated glass fibre rovings are wound on to pre-heated mandrels, a process which results in mirror-smooth pipe bore. The pipes and fittings are made in sizes from 4in to 15½in bore and can be used in temperatures up to 140 deg C. They are claimed to be as strong as steel pressure-pipes, a quarter the weight and 10 times more flexible. Straight pipes are made in lengths up to 20ft and there is a standard range of bends and tees, although special bends and junctions can be supplied. Flanged joints are made to British and American standards and bonded joints are effected by using equipment based on a Land Rover to supply hot adhesive, compressed air and electric current. Using this mobile equipment, three men can lay 200ft of Epoch pipe an hour. Two series of pipes and fittings are available, Series A for operating pressures of 100 p.s.i. and over and Series B for systems up to 100lb p.s.i. Bore sizes at present are 4in, 6in, 8in, 12in and 15½in but the range is to be extended up to 6ft dia. Operating pressures are listed up to 600lb/sq in but Epoch pipe can be made to operate under almost unlimited pressure. The company provides service for installations and will also train customers' personnel in the adhesive bonding process and use of the mobile unit.

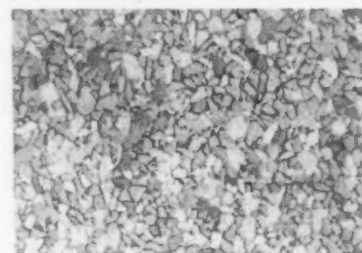
Bristol Aeroplane Plastics Ltd.,
Filton House, Bristol.
Filton 3831.
Readers' Information Service
Ref. M. 28/12/60.



Chilton Mk.IV shaver socket (L)

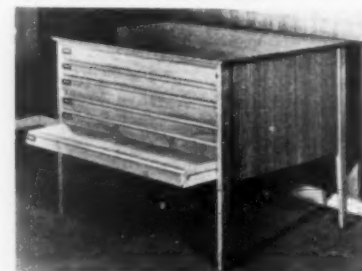


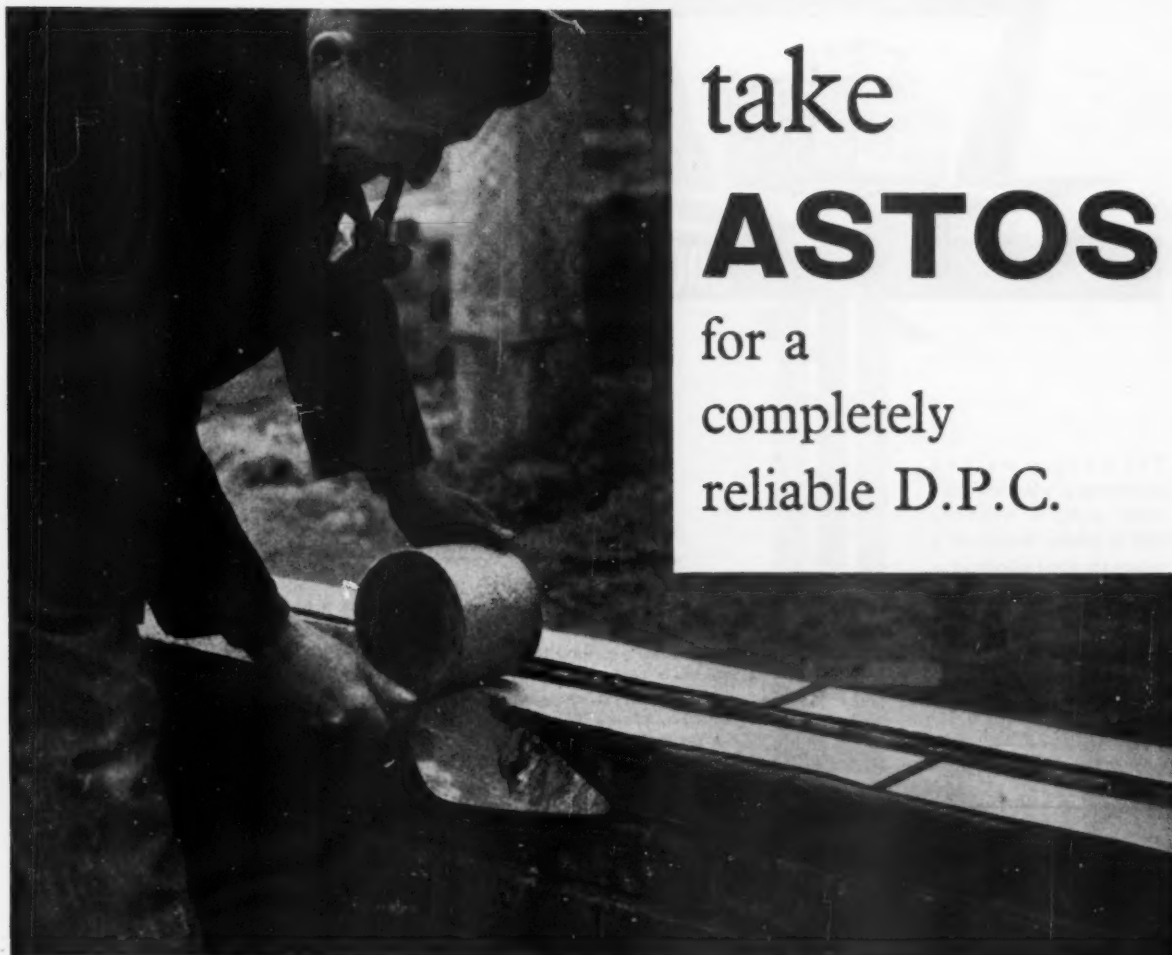
Sirocco vinyl coated fabric (I)



Patrician vinyl flooring (J)

Timber plan file cabinet (K)





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Astos is easily identified on site by the gold band and black lettering. (Green lettering for lead-lined Astos). The original asbestos/bitumen dampcourse, it complies fully with British Standard requirements. Available in 24 ft. rolls in wall widths up to 36 inches. Type 5C, 7 lb. per square yard. Lead-lined (Type 5F) 9½ lb. per square yard.



This mark appears on a gold band on all Astos dampcourse at 8 ft. intervals.

take **ZYLEX** slaters' felt

to complete the weatherproofing, provide a completely dependable secondary roof, reduce heat losses. Reinforced Zylex for open rafters, Standard for boarded roofs, Aluminium Foil Surfaced for even greater insulation.

Specify **RUBEROID** *and you specify the BEST!*



We will gladly supply full details of Ruberoid bituminous products. Write or telephone :—

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Holborn 9501 (5 lines)

ZAR11



SOUND PLANNING IS SECURELY BASED

ON

WEST'S SHELL PILING SYSTEM

The modern method combining pre-cast and cast-in-situ piling, in which the pile is firmly driven to a secure set in the load-bearing stratum, without fatigue in the pile core.

Write for full details to:
WEST'S PILING & CONSTRUCTION CO. LTD
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 Branches in London • Bristol • Birmingham • Manchester • Glasgow
 Australasia: West's Shell Piling (Asia) Pty Ltd, Melbourne, Sydney, Adelaide and Wellington, N.Z.
 Southern Africa: The Roberts Construction Co. Ltd, Johannesburg.
 France: Compagnie Générale de Construction de Fours, Paris.
 A MEMBER OF WEST'S GROUP OF INDUSTRIES




BROUGHTON MOOR SLATES & STONE

are Nature's own supreme protection for the home of man against the vagaries of time and weather. Quarried from the ruggedly beautiful Westmorland Mountains near Coniston—the land that Ruskin knew and immortalised—these famous slates and stone are renowned for their extreme durability and the colourful picturesqueness of their Light Sea Green, Olive Green and Mixed hues.

SPECIFICATION. The roof to be covered with Broughton Moor Light Sea Green Best Quality (coarse grained) Westmorland Slates, to be obtained from the Broughton Moor Green Slate Quarries, Ltd., Coniston, The Lake District, Lancs., in random sizes about 18" to 9" long, proportionate and random widths, laid to a 3" lap in regularly diminishing courses from eaves to ridge. Each slate to be securely fixed by two stout copper nails, and wide slates are to be used on the hips and verges. **Alternatives:** Seconds, Thirds, Special Peggies; Olive Green and Mixed Shades. **Ridging:** "Bromoor" purpose-made of crushed and moulded slate from the same veins is recommended.

TECHNICAL INFORMATION CONCERNING BROUGHTON MOOR WESTMORLAND GREEN SLATES

| QUALITY | LENGTH (Random widths) | COMPUTED COVER (in sq. yds. per ton (3" lap)) | APPROX. WEIGHT Per square (3" lap)—cwt. |
|-----------------|---------------------------|--|--|
| BESTS | from 18" to 9" | 24 | 9 |
| SECONDS | from 18" to 9" | 20 | 10½ |
| THIRDS | from 18" to 12" | 18 | 12 |
| SPECIAL PEGGIES | from 15" to 7" | 22 | 9½ |
| SECOND PEGGIES | from 10" to 7" | 20 | 11 |

Samples and prices gladly sent. Immediate Delivery.

BROUGHTON MOOR LIGHT SEA GREEN AND OLIVE GREEN STONE remains sound for centuries and is eminently suitable for external and internal Facings, Foundation Stones, Paving and Flooring, Steps, Cills, Shop Fronts, Surrounds, Pilasters, Fireplaces and all architectural work.

Ask for these Technical Pamphlets:

1. Floorings.
2. Facings.
3. Coping.
4. Cills.
5. Riven Face Slabs.

THE BROUGHTON MOOR GREEN SLATE QUARRIES LTD.

Telephone: Coniston 225/6

Coniston, Lancashire

Telegrams: Cann, Coniston

market prices (London)

These prices apply to material purchased in the quantities named or otherwise as might be expected for a new building of moderate size. They include delivery and are the material basis used in the build-up of 'Measured Rates' and subject to the conditions heading that schedule. Prices are under careful constant review but should be confirmed.

AGGREGATES AND SAND

| | | |
|-----------------------------|------|---------------|
| 1½in—all in—ballast | 27/- | Yard cube |
| ¾in do. do. | 27/6 | delivered |
| ¾in screened shingle | 25/- | (in five-yard |
| ¾in do. do. | 26/3 | loads or |
| ¾in granite chippings | 49/- | more) |
| Sharp washed sand | 27/6 | |
| Pit sand | 24/6 | |
| Building sand | 24/- | |
| Broken brick | 21/- | |
| 1½in shingle | 22/6 | |
| Cartage of muck | 10/- | |

BUILDING MATERIALS AS DESCRIBED, CENTRAL LONDON

| CEMENTS packed in paper bags | Per ton |
|--|---------|
| Portland in 6ton lots | 110/- |
| Do., from 1ton to 5ton 19cwt do. | 122/- |
| Do., Rapid hardening (6ton lots) | 120/6 |
| Do., (but 1ton to 5ton 19cwt) | 132/6 |
| Cement 'Aquacrete' (do.) | 154/6 |
| Do., '417' or 'Polar' (do.) | 154/6 |
| Do., 'White' 1ton (lots) | 275/6 |

| LIME— | 134/6 (1ton loads) deliv'd |
|--------------------------|----------------------------|
| Hydrated .. including .. | 132/- (2/3 do.) do. |
| White .. Bags .. | 122/- (4/5 do.) do. |
| | 120/- (6 do.) do. |

PLASTER—

| | |
|--|------------|
| Keenes, coarse, pink | 239/6 ton |
| Do. do. white | 244/9 do. |
| Sirapite, do. | 179/9 do. |
| Do. finish | 187/6 do. |
| Hardwall, do. | 179/9 do. |
| Plaster, coarse, pink | 168/3 do. |
| Do. do. white | 177/9 do. |
| ¾in Gypsum Plaster Lath (300sq yds to under 600sq yds) | 2/5½sq yd. |
| ¾in Do. do Wallboard | 2/9 do. |
| ¾in Jute scrim (100yds roll) | 12/8 each |
| Cow hair (under 3cwt) | 62/3 ¼cwt |

FIRECLAY—

| | |
|--|---------------------|
| In non-returnable bags (1ton lots) | 217/3 ton delivered |
| Fire cement | 11/3 14lb |

BRICKS

BACKING BRICKS (in truck loads)—

| | |
|--|---------------------------|
| Flettons | 132/- per 1,000 delivered |
| Do. Keyed | 134/- do. |
| Do. bullnose | 174/6 do. |
| Blue wirecuts (Net) | 590/- do. |
| White | 221/- do. |
| Southwater engineering (Class A) | 425/- do. |
| Firebricks—2½in | 625/- do. |
| Do. —3in | 750/- do. |

STOCK BRICKS—

| | |
|---|--------------------------|
| Mild stocks | 215/- per 1,000 at Works |
| Second, do. | 294/- do. |
| First, do. | 340/- do. |
| Add for delivery—approx. 55/- per 1,000 in lorry loads. | |

FACINGS (ex truck or lorry)—

| | |
|---|---------------------------|
| Rustics | 172/- per 1,000 delivered |
| White | 220/- do. |
| Blue pressed, 2½in (Net) | 664/- do. |
| Do. bullnose | 684/- do. |
| Reds (Multi sand faced) | 360/- do. |
| White glazed stretchers | 1792/- do. |
| Do. headers | 1760/- do. |
| Do. bullnose | 2240/- do. |
| Do. double stretchers | 2380/- do. |
| Do. double headers | 2170/- do. |
| Breeze fixing bricks | 30/6 per 100 |
| Fire tile and lumps | 34/- ft cube |
| Wall ties—8in by ¾in by ¾in, galvanized | 77/3 per cwt |
| Cement mortar (1 : 3) hand-made | 94/- yd cube |

BRICKLAYERS' SUNDRIES—

| AIR BRICKS | 9 by 3in | 9 by 6in | 9 by 9in | 12 by 9in |
|---|----------|----------|----------|-----------|
| Iron .. each .. | 2/10 | 4/7 | 6/10 | 9/2 |
| Galvanized do. do. .. | 4/10 | 8/- | 11/11 | 14/6 |
| Terra Cotta do. .. | 1/2 | 2/4 | 5/8 | 11/2 |
| Chimney pots, Terra Cotta (10 to 25) do. .. | 9/4 | 16/3 | 37/3 | 64/6 |

PARTITIONS—

| | | | |
|--|------|------|-----|
| 18in by 9in Blocks keyed for plastering | | | |
| Per yd super in lorry loads | 2in | 2½in | 3in |
| In solid clinker including any half blocks | 3/11 | 4/6 | 5/6 |
| In cellular clinker blocks | 3/11 | 4/7 | 5/3 |
| In hollow clay blocks | — | 4/7 | 5/9 |

Clinker blocks in small quantity .. 6/5 7/9 9/1
Intermediate quantities in all types may be had at intermediate prices.

Smooth in lieu of keyed faces extra cost per side 3d per yd super

SINKS—

| | | | |
|---|------------|------------|------------|
| Fireclay white glazed in and out—standard quality | 24 by 18in | 30 by 18in | 30 by 20in |
| London pattern, no overflow, 6in deep | 70/6 | 98/- | 118/9 |
| Belfast, plain edge, 10in deep | 89/6 | 156/6 | 190/- |

FLUE, LININGS, PLAIN, CIRCULAR (FIRECLAY)—(UNDER 10)

| | Foot lineal | Each Bends |
|---|-------------|------------|
| 9in diameter | 5/- | 15/- |
| 10in do. | 6/1 | 18/3 |
| 12in do. | 11/9 | 35/3 |
| 9in diameter, beaded end, 12in high | | 6/9 |

FLUE PIPES AND FITTINGS—

| | 4in | 5in | 6in |
|---------------------------------------|------|------|------|
| Heavy asbestos type, 6ft length | 18/6 | 25/6 | 32/6 |
| Do. 3ft length | 9/3 | 12/9 | 16/3 |
| Do. bends | 7/2 | 9/- | 10/8 |
| Light asbestos type, 6ft length | 16/- | 20/- | 25/6 |
| Do. 3ft length | 8/- | 10/- | 12/9 |
| Bends | 5/7 | 7/1 | 8/8 |
| Baffler | 15/5 | 18/4 | 19/4 |

DRAINAGE GOODS

GLAZED STONEWARE STANDARD LIST (NOV., 1956)

| | 4in | 6in | 9in |
|--|------|------|------|
| ORDINARY TYPE—Each | | | |
| Pipes in 2ft lengths | 3/4 | 5/- | 9/- |
| Bends | 5/- | 7/6 | 20/3 |
| Junctions (4in on 4in, 6in on 6in, 9in on 9in) | 8/4 | 12/6 | 27/- |
| Gullies with 4in outlets | 12/6 | 13/9 | 22/6 |
| 4in horizontal inlets | 4/- | 4/- | 4/- |
| 4in vertical do. | 6/- | 6/- | 6/- |
| Black iron grids | 1/6 | 2/10 | 5/6 |

Adjustment to Current Cost

| | 2ton lots or more | Less than 2ton lots |
|--|--------------------|---------------------|
| 2in to 9in diameter | | |
| 'Best' pipes and fittings. | 100 pieces or more | Under 100 pieces |
| Percentages to add | -5% | +15% +20% |
| Further percentages to be independently added in respect of: British Standard pipes, etc., 10. 'Best' Tested pipes, 37½. British Standard Tested, 47½. | | |

IRON DRAINAGE GOODS—

| | 4in | 6in |
|---------------------------------|------|-------|
| Each | | |
| Cast iron pipes, 9ft long | 99/9 | 146/- |
| Do. 6ft do. | 68/- | 109/9 |
| Do. 4ft do. | 54/6 | 82/3 |
| Do. 2ft do. | 33/3 | 49/9 |
| Short bend | 22/3 | 59/- |
| Junction | 39/3 | 94/3 |

DRAINAGE GOODS—Continued

| GULLEY PARTS— | | 4in | 6in | |
|------------------------------------|-------|------|-------|------|
| Traps, high level, invert .. .. | .. .. | 32/6 | 93/2 | each |
| Inlet, bellmouth pattern .. .. | .. .. | 18/3 | 36/3 | do. |
| Do. with one vertical branch .. .. | .. .. | 31/7 | 59/5 | do. |
| Do. with two do. .. .. | .. .. | 85/8 | 124/8 | do. |
| Extra for sealed cover .. .. | .. .. | 11/- | 14/1 | do. |

RAINWATER SHOES—

| | 4in | 6in | |
|--|------|------|------|
| With vertical inlet and rebated top .. | 45/- | 90/- | each |
| Extension piece | 19/9 | 23/9 | do. |
| Flat loose coated grating | 4/8 | 4/8 | do. |
| Loose solid coated cover | 6/3 | 6/3 | do. |

MANHOLE CHANNELS, WHITE GLAZED—

| Each | 4in | 6in | 9in |
|------------------------------------|------|------|------|
| Straight, 2ft long | 20/5 | 30/- | 50/5 |
| Taper, do. | 34/1 | 34/1 | 51/9 |
| Bends, main, half section | 39/6 | 57/3 | 94/- |
| Do., branch, do. | 24/6 | 34/1 | — |
| Do., do. three quarters, do. | 34/1 | 54/6 | — |
| Junctions, single | 32/8 | 57/3 | — |
| Do., double | 45/- | 77/8 | — |

BROWN GLAZED CHANNELS—

| Based on standard list (less than 100 pieces) | | | |
|---|------|------|-----|
| | 4in | 6in | 9in |
| Half-round main channel (2ft long) .. | 2/6 | 3/9 | 7/- |
| Extra for stop ends | 2/6 | 3/9 | 6/9 |
| Extra for outlets | 5/- | 7/6 | — |
| Channel bends with splayed ends | 7/6 | 11/3 | — |
| Three-quarter section do. | 10/- | 15/- | — |

MANHOLE COVERS—

| | | Black |
|-------------------------------|-------|-----------|
| 24 by 18in foot traffic .. .. | .. .. | 31/9 each |
| Do. Strong do. .. .. | .. .. | 58/3 do. |
| Do. Light car traffic .. .. | .. .. | 102/- do. |
| Do. Road traffic .. .. | .. .. | 130/- do. |

SUNDRIES—

| | Galvanized |
|---------------------------------------|---------------|
| Manhole steps (for 9in) | 9/9 each |
| 4in Mica valve fresh air inlets | 16/- do. |
| Plumber's hemp | 9/- per lb |
| Gaskin, caulking | 1/11 do. |
| Canvas backed hair felt, 4in wide .. | 9d per ft run |

ROOFING MATERIALS**WELSH SLATES (delivered)—**

| Sizes in inches | Full Loads | Quantity | |
|---------------------------|------------|------------|---------|
| | per 1,000 | 500 to 999 | 1 to 49 |
| 22 by 11 | 2260/- | 277/3 | 40/9 |
| 20 by 10 | 2070/- | 251/6 | 37/- |
| 18 by 10 | 1420/- | 172/3 | 25/3 |
| 16 by 10 | 1120/- | 133/3 | 19/9 |
| 14 by 9 Damp Course | 668/- | 75/9 | 11/3 |
| 14 by 4½ | 328/- | 33/3 | 4/9 |

TILES (Brosley and Staffordshire)—

| | per 1,000 | per 100 |
|--|----------------|---------|
| 10½in by 6½in Machine made, 6ton lots | 321/6 | 42/- |
| Do., hand made, sand faced (Berks red) | 330/9 | 49/- |
| Hips, valleys and angles | 31/6 per dozen | — |
| Plain concrete tiles | per 1,000 | per 100 |
| | 210/6 | 22/9 |

| | |
|--|---------------|
| Sheeting asbestos corrugated, 6in pitch .. | 8/3½ yd super |
| 4½in by 16 gauge, drive screws (galvanized) .. | 18/3 gross |
| 7½in by ¾ hook bolts and nuts (do.) .. | 65/6 do. |
| Washers, round, flat galvanized .. | 4/10 do. |
| Do. do. bituminous | 2/- do. |

ROOFING FELT—

| | |
|------------------------------------|--------------|
| Sanded bitumen felt (44lb) | 1/2 yd super |
| Do., but 60lb in weight | 1/10 do. |
| Inodorous felt, best quality | 2/11 do. |
| Do., second quality | 2/3 do. |
| Underlining | 1/8 do. |
| Sheathing | 1/8 do. |
| Galvanized felting nails | 2/4 lb |

THERMAL INSULATION—

| | |
|--|-------------|
| ½in Insulating Gypsum Baseboard (600sq yds) .. | 2/8 sq yd |
| ½in Do. Do. Lath do. | 2/8 do. |
| ½in Do. Do. Wallboard do. | 2/11 do. |
| ½in Asbestos (Fully-compressed) Sheet | 8/4 do. |
| ½in Insulating Cork Slabs | 7/6 do. |
| Silicate Cotton (2ton lots) | 2/6 ft cube |

STONE

Free on rail London
 Monks Park 10/3 St. Aldhelm 11/6 average in blocks of 17ft cu
 Portland brown Whitbed 9/10 average in blocks of 25ft cu
 Doulling 10/10 Beer 10/6

TIMBER**Softwood—sawn—random lengths.**

| | Per standard | Per cubic ft |
|-------------------------------------|--------------|--------------|
| Carcassing quality | £100 | 12/2 |
| Joinery quality | £130 and up | 15/9½ |
| Plain edged unsorted flooring | ½in 11in | 1½in 1½in |
| per square | 90/- 110/- | 138/- 165/- |
| T. and G. flooring per square | — 120/- | 150/- 180/- |
| ½in Hardboard 4/1 sq yd. | | |
| ½in Do. 6/6 sq yd. | | |
| Larger quantities cost less. | | |

SUNDRIES—

| | Dia. | 3in | 6in | 9in |
|---|---------------|-----------|----------|--------------|
| Black hexagon bolts, nuts and washers, Each | ½in 1in | 11d 1/4 | 1/3 1/9 | 1/6 2/2 |
| Sashline, hemp, good quality | ½in | 1/10 | 2/5 | 3/1 |
| Per yd Run | | No. 6 10d | No. 8 1½ | No. 10 1/5 |
| Floor brads | | | | 84/3 per cwt |
| Cut Clasp Nails | | | | 85/6 per cwt |
| Steel ordinary screws | 1in No. 8 3/8 | 3in No. 8 | 6/3 | per gross |
| Brass, do. | Do. 10/2 | Do. | 17/11 | |

HARDWOOD. Normal joinery quality.

| | Per ft cube |
|-------------------------------------|-------------|
| Mahogany, African Square edge | 30/- |
| do. Honduras | 66/- |
| Teak, Burma and Siam | 78/- |
| Walnut, Australian | 84/- |
| Oak, English | 42/- |
| do. Yugoslavian | 47/6 |
| Walnut, African | 25/- |

BUILDING BOARDS

| Description | Rate | Unit |
|--|-------|----------------|
| 16mm Birch blockboard | 208/- | Per 100ft |
| 22mm do. do. | 257/- | |
| Austrian Mahogany faced one side, blockboard 18mm thick | 367/- | super, |
| Austrian figured Oak faced one side, blockboard 19mm thick | 414/- | but |
| Beech, 6mm plywood | 109/- | from one board |
| Birch, do. do. | 100/- | |
| Do. 9mm do. | 142/- | up to |
| Teak faced one side, plywood 6mm thick | 397/- | a |
| Austrian figured Oak one side, 6mm | 222/- | |
| Australian do. Walnut do. do. ¾in | 296/- | bundle |

IRONMONGERY

| | 2in | 3in | 4in | 5in | 6in |
|--|-----|------|------|------|------|
| Cast iron Butts, per pair | 1/5 | 2/5½ | 3/9 | 7/1 | 10/2 |
| Hinges, spring, single action regulating, japanned, each | — | 8/3 | 12/9 | 16/9 | 22/3 |
| Do. but double action spring only, each | — | 17/6 | 22/3 | 21/- | 35/9 |
| Do. blank only, each | — | 10/3 | 14/- | 28/- | 24/3 |

BRITISH CERAMIC TILE



COUNCIL

Announce

CERAMIC TILE FIX **CTF**

Ceramic Tile Fix is a material developed by the BRITISH CERAMIC TILE COUNCIL in co-operation with the BRITISH CERAMIC RESEARCH ASSOCIATION, for the fixing of ceramic tiles. It is produced in several grades and is regarded by the Council as an outstanding advance in tile-fixing technique, and one which merits the consideration of everyone concerned with the fixing of ceramic tiles.

One of its greatest virtues is EASE OF APPLICATION.

CERAMIC TILE GROUT **CTG**

The importance of the grouting in any tiling installation cannot be over-emphasised. CTG is made expressly for this duty and is greatly superior to many of the grouting materials in common use. It is recommended by the B.C.T.C. as presenting a further, and highly important, contributory feature to — high-class tiling work.

CTF and CTG are manufactured and distributed for the BRITISH CERAMIC TILE COUNCIL by **EVODE LIMITED** Stafford — to whom all enquiries and orders should be addressed.

Telephone: Stafford 2241 (5 lines)

Tests carried out by the British Ceramic Research Association show that CTF has an adhesion strength 2-3 times greater than the conventional sand/cement mortars. Consistency is ensured by regular testing.



*Write
for **FREE**
informative
booklet.

*Dept. 'C' BRITISH CERAMIC TILE COUNCIL, FEDERATION HOUSE, STOKE-ON-TRENT, ENGLAND

The Griffin-Grundy 'TEN-POINT' All Metal Laboratory Furniture



- 1 Front and rear welded frames provide maximum rigidity.
- 2 Removable back gives access to services.
- 3 Metal drawer tracks and slides incorporate a cam adjustment.
- 4 Rubber buffers to drawers and doors ensure quiet operation.
- 5 Recessed door and drawer-handles improve appearance.
- 6 Adjustable shelves in cupboard units.
- 7 Easily adjusted levelling feet fitted with P.V.C. shoes protect floor.
- 8 Detachable toe plinths.
- 9 Zinc coated mild steel construction for added protection.
- 10 Stoved melamine-base enamel inside and outside for easy cleaning.

Units dismantle for shipment resulting in lower freight charges, and easy assembly on site. Full instructions are provided with each installation. Write for literature today.



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Food for thought

Architects: J. B. F. COWPER and POOLE

LATEXFALT

INDUSTRIAL FLOORING

Over 20,000 square feet of jointless Latexfalt flooring was recently laid in this new warehouse for Messrs. H. Reeves & Co. Ltd. Wholesale Grocers of Portsmouth.

Advantages? Latexfalt is noiseless, moisture repellent, dust free, remains resilient, will not taint foodstuffs and is improved by constant traffic.

Sole Agents in the United Kingdom
AMEYS ASPHALT CO. LTD., Abingdon, Berks.
Telephone: Sutton Courtenay 275 (4 lines)

-floor for food!

IRONMONGERY—Continued

| | 12in | 18in | 24in | 30in | 36in |
|--|------|------|-------------------------------|----------|-----------|
| Tee hinges (japanned) per pair | 2/- | 3/10 | — | — | — |
| Do., but stronger, per pair | 3/4 | 6/1 | 8/3 | — | — |
| Hook and Ride hinges, per pair | — | — | 20/5 | 27/8 | 33/11 |
| BOLTS—each— | 3in | 4in | 6in | 8in | 10in 12in |
| Cabinet, barrel, straight or necked | 1/11 | 2/3½ | 3/1 | — | — |
| Square spring, with brass knob | 1/11 | — | — | — | — |
| Tower bolts | — | 2/7 | 3/8 | 4/11 | 6/2 7/2 |
| Barrel bolts | — | 3/10 | 5/6 | 7/3 | 9/4 11/5 |
| Add to Tower or Barrel bolts if necked .. | 9d | 9d | 1/4 | 1/3 | 1/3 1/3 |
| LOCKS—each— | | | | | |
| Rim lock, 2 lever, wrote case, brass bolt and bushing .. | 13/6 | | Brass furniture .. 5/- | | |
| | | | or Bakelite do. .. 3/3 | | |
| | | | Bakelite finger-plates .. 2/8 | | |
| Mortice lock, 2 lever, bushed .. | 13/6 | | Brass furniture .. 8/9 | | |
| | | | or Bakelite do. .. 3/10 | | |
| Cylinder latches, japanned case .. | | | | | 17/- |
| Brass sash fastener | | | | each | 5/- |
| Casement fasteners (malleable) .. | | | | do. | 1/8 |
| Do. stays (do.) | | | | do. | 2/3 |
| Axle pulleys (brass face, iron wheel) 1½in .. | | | | do. | 4/6 |
| Do. as last, but with brass wheel 1½in .. | | | | do. | 7/- |
| Sash line, No. 8 Anchor, yellow label .. | | | | per yard | 1/2½ |

METAL GOODS

British rolled steel joists ex mills to basic sections on site (6in by 5in, 8in by 5in or 6in, and 10in or 12in by 6in) £42/10/0 per ton

Extra cost over basis for following sections—

| | | |
|---|---------|---------|
| 9in or 18in by 7in, 14in by 5½in, 15in by 5in, 14in or 15in or 16in or 18in by 6in, 20in by 6½in, 20in by 7½in, 10in or 12in or 14in or 18in by 8in | 10/- | per ton |
| 5in by 4½in, 7in by 3½in, 13in by 5in | 15/- | do. |
| 12in by 5in, 22in by 7in | 20/- | do. |
| 6in by 4½in, 7in or 8in or 9in by 4in, 10in by 5in | 25/- | do. |
| 4in by 3in, 10in by 4½in | 30/- | do. |
| 5in by 2½in, 5in by 3in | 35/- | do. |
| 6in by 3in, 24in by 7½in | 40/- | do. |
| 3in by 3in | 50/- | do. |
| 4½in by 1½in | 65/- | do. |
| 3in by 1½in, 4in by 1½in | 70/- | do. |
| 1in mild steel reinforcing rods ex mill d/d .. | £41/0/0 | do. |

Extras per ton

| | | |
|-----------------------------------|-------|---------|
| ½in or ¾in diameter in size | 15/- | per ton |
| ¾in | 30/- | do. |
| 1in | 62/6 | do. |
| 1½in | 92/6 | do. |
| 2in | 132/6 | do. |
| 2½in | 172/6 | do. |

Extras for length

| | | |
|----------------------|-------|---------|
| 5ft to 3ft | 7/6 | do. |
| 3ft to 2ft | 15/- | do. |
| 2ft | 22/6 | do. |
| 40ft to 45ft | 15/- | do. |
| 45ft to 50ft | 22/5 | do. |
| Bolts and Nuts | 112/- | per cwt |

| | | |
|---|------|----------|
| Trench covering, including trays 1½in deep and rebated frames, 9in wide | 25/- | foot run |
| Do., but 12in wide | 27/- | do. |
| Do., but 14in wide | 30/- | do. |
| Do., but 18in wide | 39/- | do. |

METAL SUNDRIES

| | | |
|---|------|----------|
| Cast iron pavement lights with 4in by 3in prism and convex lenses in alternate rows | 33/- | ft super |
| Iron single fire doors, panelled both sides, pivot hung and self closing, to angle frame rebated and lugged, to meet fire regulations | 54/- | do. |
| 24 gauge galvanized Tallboy 6ft high, 9in diameter with 9in by 12in base | 55/- | each |

CHAIN LINK FENCING—

| In 25 yards lineal rolls inclusive of line wire. | | | | | |
|--|-------------------|-------|-------|-------|-------|
| 2in mesh | Height in inches— | | | | |
| | 36 | 42 | 48 | 60 | 72 |
| 10½in wire gauge .. | 135/3 | 157/6 | 180/- | 225/6 | 270/3 |
| 12½ do. .. | 94/- | 109/9 | 125/6 | 156/9 | 173/3 |
| 14½ do. .. | 65/9 | 77/- | 87/3 | 109/9 | 131/6 |

DOUBLE SOOT DOORS AND FRAMES—

| | | | |
|--|------------|-------------|--------------|
| Fitted with brass turn-buckle and cast key | 9in by 9in | 12in by 9in | 14in by 12in |
| | 26/6 | 38/6 | 66/3 |

SLIDING DOORS, GATES AND PARTITIONS—

| | | |
|---|------|----------|
| Factory sliding doors in two leaves containing about 100sq ft with mild steel angle frames covered with 24 gauge corrugated galvanized sheeting and including hanging tubular track and gear complete | 18/6 | ft super |
| Factory entrance gates with mild steel frames clad with 2in mesh chain link complete .. | 16/6 | do. |

STEEL ROOF LIGHTS—

| | | | | |
|---|------------|------------|-------------|--|
| In Skylights and Lanterns, Standard type with puttyless glazing, lead flashings, and ½in rough cast glass; in the case of Lanterns 18in vertical sashed sides are provided in addition. | | | | |
| Size at Base | 6ft by 4ft | 8ft by 6ft | 10ft by 8ft | |
| Skylights | £35 5 | £50 10 | £69 10 | |
| Lanterns | £55 | £76 5 | £110 | |

HIGH GRADE DOMESTIC BOILERS—

Coke Fed. Performance 20 to 40 gallons raised from 40°F to 140°F per hour as under.

| TYPE | £ | s. | d. |
|----------------------|------------------------|----|------|
| 20 gallons per hour | | | |
| 15in wide, 23in high | Enamel finish | 11 | 10 0 |
| 25 gallons per hour | | | |
| 17in wide, 26in high | Do. Grey Mottle | 20 | 10 0 |
| | Do. Cream Mottle | 22 | 0 0 |
| 40 gallons per hour | | | |
| 22in wide, 30in high | Do. Cream Mottle | 38 | 0 0 |

GAS, WATER AND STEAM TUBES

| BASIC PRICES | | | | | | | | | | |
|--------------------|-------|------|-----|------|-----|------|------|------|-----|------|
| Internal | ½in & | ¾in | 1in | 1½in | 2in | 2½in | 3in | 3½in | 4in | 4½in |
| Diameter— | ½in | ¾in | 1in | 1½in | 2in | 2½in | 3in | 3½in | 4in | 4½in |
| Tubes per ft | 9½d | 10d | 1/- | 1/2½ | 1/9 | 2/3 | 2/8 | 3/9 | | |
| Bends each | 1/7 | 1/9 | 2/- | 2/6 | 3/8 | 5/5 | 6/2 | 10/7 | | |
| Elbows, sq. do. | 1/8 | 1/10 | 2/2 | 2/6 | 3/- | 4/4 | 5/2 | 8/6 | | |
| Do., round do. | 1/10 | 2/- | 2/4 | 2/10 | 3/4 | 4/8 | 5/8 | 9/4 | | |
| Tees .. do. | 2/- | 2/2 | 2/6 | 3/2 | 3/8 | 5/- | 6/2 | 10/2 | | |
| Crosses do. | 4/4 | 4/8 | 5/6 | 6/6 | 8/2 | 11/- | 13/2 | 21/- | | |
| Backnuts do. | 4d | 4d | 6d | 7d | 10d | 1/- | 1/4 | 2/2 | | |
| Sockets do. | 6d | 6d | 8d | 10d | 1/- | 1/4 | 1/9 | 2/6 | | |
| Sockets dimin. do. | 8d | 10d | 1/- | 1/2 | 1/6 | 2/- | 2/8 | 4/- | | |

EX. STOCK IN ORDERS OF £10 OR MORE DISCOUNTS OFF BASIC LIST.

| TUBE— | | FITTINGS— | |
|-------------------|--|------------|--|
| Black | | Galvanized | |
| Medium (Blue)—35% | | Medium—25% | |
| Heavy (Red) —25% | | Heavy —15% | |
| Black | | Galvanized | |
| Heavy —10% | | Heavy —2½% | |

RAINWATER GOODS (Painted or Unpainted)

| In consignments of 5cwt and over From Standard List | | | | | |
|---|-------|------|-------|-------|----------------|
| Pipe: | 2in | 3in | 4in | 5in | 6in |
| 6ft lengths .. each | 12/10 | 14/5 | 18/11 | 24/8 | 31/6 |
| 3ft do. .. do. | 7/- | 7/9 | 10/- | 13/1 | 16/6 |
| Shoe, ordinary .. do. | 2/7 | 3/10 | 5/7 | 9/5 | 12/11 |
| Bend .. do. | 3/1 | 4/4 | 6/4 | 11/3 | 14/7 |
| Branch, single .. do. | 4/6 | 6/7 | 9/3 | 14/7 | 22/6 |
| Offset, 4½in .. do. | 3/9 | 5/3 | 7/9 | 12/11 | 17/- |
| Do. 9in .. do. | 4/11 | 6/6 | 9/8 | 15/3 | 19/3 |
| H.R. gutter, 6ft length .. | — | 6/- | 8/5 | 10/4 | 13/10 |
| Angle or nozzle .. do. | — | 2/6 | 3/1 | 3/9 | 5/4 |
| Stop end .. do. | — | 9d | 1/1 | 1/6 | 1/9 |
| | | | | | Above plus 25% |

PLASTERING MATERIALS

Sand, lime, cement and various plasters are previously included under those heads—

| | | | | |
|---|----|--------|----|--------------|
| Metal lathing (½ in by 24 in) | .. | .. | .. | 4/2 sq yard |
| Do. do. (½ in by 22 in) | .. | .. | .. | 4/8 do. |
| Lath nails, galvanized | .. | .. | .. | 1/6 lb |
| White glazed tiles (6 in by 6 in by ½ in) | } | 1 yd | { | 27/9 sq yard |
| Do. rounded on one edge | | to | | 34/- do. |
| Do. on two adjoining edges | | 10 yds | | 36/3 do. |

PLUMBER'S GOODS

| | |
|--------------------------------------|---------------|
| 4lb lead sheet (in 1ton lots) | 106/- per cwt |
| Lead water pipe in coils (do.) | 108/3 do. |
| Plumber's solder | 3/7 lb |
| Copper tacks | 8/8 do. |

IRON SOIL AND WASTE PIPE. (5cwt lots and up)

| each | 2in | 3in | 3½in | 4in |
|------------------------------------|------|------|----------------|-------|
| Do., in Medium pipe, 6ft length .. | 14/6 | 17/2 | 19/3 | 21/11 |
| Do., 4ft length | 10/5 | 12/2 | 13/7 | 15/5 |
| Bends | 5/4 | 6/6 | 8/1 | 9/1 |
| Do., with oval door | 17/4 | 18/6 | 21/1 | 24/7 |
| Junction, single | 6/6 | 9/8 | 11/3 | 13/3 |
| Do., with oval door | 18/6 | 21/8 | 24/3 | 26/3 |
| Swan necks, 4½in | 6/6 | 10/3 | 11/9 | 13/9 |
| Do., 9in | 8/8 | 11/9 | 13/9 | 16/1 |
| Holderbat, 2½in projection .. | 5/9 | 5/11 | 6/3 | 6/4 |
| | | | Above plus 25% | |

GALVANIZED CISTERNS, TANKS AND CYLINDERS—
(Less than three)

| each | | | | gallons | | | |
|--|----|----|----|------------------|-------|-------|-------|
| CISTERNS | | | | Nominal capacity | | | |
| Bends over tops and corner plates. Riveted or welded | | | | | | | |
| | | | | 100 | 150 | 200 | 300 |
| 14 gauge | .. | .. | .. | 174/- | 235/- | 295/- | 417/- |
| 12 gauge | .. | .. | .. | 211/- | 292/- | 344/- | 464/- |
| in plate | .. | .. | .. | 241/- | 339/- | 399/- | 542/- |

HOT WATER TANKS

| | | | | |
|---------------------------|-------|-------|-------|-------|
| Riveted and with handhole | | | | |
| and ring.. .. | 20 | 25 | 30 | 40 |
| 12 gauge | 147/- | 151/- | 164/- | 190/- |
| 1 in plate | 165/- | 168/- | 184/- | 211/- |

HOT WATER CYLINDERS—

| | | | | |
|----------------------------|-------|-------|-------|-------|
| Riveted, with handhole and | | | | |
| ring | 20 | 25 | 33 | 39 |
| 12in gauge | 166/- | 182/- | 203/- | 219/- |
| 1in plate | 181/- | 200/- | 221/- | 240/- |

PLUMBER'S BRASSWORK, etc.

| | 1in | 1 1/2in | 2in | 3in |
|--|---------|---------|---------|------|
| Boiler screws, single nut .. | 1/8 | 2/2 | 3/6 | 6/- |
| Do., double nut | 2/4 | 2/11 | 5/6 | 8/- |
| Cap and lining | 1/3 | 1/8 | 2/- | 2/2 |
| Plumber's unions | 2/6 | 3/1 | 4/2 | 7/5 |
| Ball valves, screwed iron .. | 14/2 | 22/3 | — | — |
| Do., fly nut and union .. | 15/2 | 24/- | — | — |
| Bib valves, crutch top screwed iron | 8/9 | 12/9 | — | — |
| Do., but screwed boss .. | 10/- | 14/6 | — | — |
| Stop valves, screwed iron .. | 7/9 | 10/6 | — | — |
| Do., screwed iron and union .. | 9/6 | 13/9 | 28/6 | — |
| Do., double union | 10/9 | 15/6 | 30/- | — |
| Waste, plug chain and stay .. | — | — | 8/6 | 9/6 |
| | 1 1/2in | 1 1/2in | 2in | 4in |
| Caps and screws | 4/6 | 5/6 | 7/- | — |
| Sleeves, long | — | — | 7/8 | 11/1 |
| Do., short | — | 4/6 | 4/8 | 9/- |
| Thimble | — | 3/10 | 5/- | 10/7 |
| Full way gate valves, hot pressed | 21/- | 29/3 | — | — |
| | | 1 1/2in | 1 1/2in | 2in |
| Lead 7lb P. trap | .. | 7/2 | 9/5 | 13/3 |
| Do., S. trap | .. | 8/10 | 11/7 | 16/3 |
| Lead 6lb P. traps with 3in seal .. | .. | 8/- | 9/8 | — |
| Do., but S. traps, do. | .. | 9/11 | 12/2 | — |
| Wire balloon guards, copper, 2in, 3/9; 4in 4/- | | | | |
| Do., galvanized iron, 2in 1/5; 4in 1/10 | | | | |
| Hair felt 34in by 20in, 24oz, 6/- sheet | | | | |
| Boss white jointing compound, 2/3lb | | | | |
| Gasket, 1/10x1lb. Hemp. 9/-lb | | | | |

COPPER TUBES—Extract from B.S. 659/1955—

| Nominal bore | Internal work (semi-hard) | | | 3cwt lots | |
|--------------------|---------------------------|-------|---------------------|--------------------------|--------------------------|
| | Outside diameter | Gauge | Weight lb per ft | Price per lb pence | Price per ft pence |
| $\frac{1}{4}$ in | 0.596 | 19 | 0.27 | 42 $\frac{1}{2}$ | 11.55 |
| $\frac{1}{2}$ in | 0.846 | 19 | 0.39 | 41 | 15.99 |
| 1 in | 1.112 | 18 | 0.62 | 39 $\frac{1}{2}$ | 24.49 |
| 1 $\frac{1}{4}$ in | 1.362 | 18 | 0.76 | 38 $\frac{1}{2}$ | 29.55 |
| 1 $\frac{1}{2}$ in | 1.612 | 18 | 0.91 | 38 $\frac{1}{2}$ | 35.39 |
| 2 in | 2.128 | 17 | 1.40 | 40 $\frac{1}{2}$ | 56.70 |

CAPILLARY TYPE CONNECTIONS—

Add for delivery and packing on orders under £10.

All ends copper to copper

| | Each | 2in | 3in | 4in | 5in | 6in |
|------------------|-------|-------|-------|-------|--------|-------|
| Straight | 1/54 | 1/104 | 2/104 | 4/04 | 8/04 | 11/64 |
| Elbow | 3/4 | 4/14 | 5/64 | 8/74 | 13/114 | 28/6 |
| Tees | 4/14 | 4/8 | 6/94 | 11/34 | 19/44 | 28/6 |
| Brackets (Brass) | 2/104 | 3/5 | 3/104 | 4/04 | 6/54 | 7/64 |

GLASS

| | | Per foot superficial |
|---|----------------------------------|---|
| English, flat drawn sheet glass cut to sizes | 24oz | 26oz 32oz |
| in squares | 11 ¹ / ₄ d | 1/2 ¹ / ₄ 1/6 ¹ / ₄ |
| Figured rolled, white cut to sizes, in squares (4in) } Group 1 .. | 1/2 ¹ / ₄ | Per ft super |
| Ditto, but in standard tints } Group 2 .. | 1/8 ¹ / ₄ | do. |
| 4in Rolled, cut to size, in squares .. | 2/1 ¹ / ₄ | do. |
| 4in rough cast do. | 1/2 ¹ / ₄ | do. |
| 4in do. wired do. | 1/5 ¹ / ₂ | do. |
| Georgian wired do. | 1/9 ¹ / ₄ | do. |
| Fluted (No. 1) do. | 1/9 ¹ / ₄ | do. |
| 7/8in Reeded | 1/8 ¹ / ₂ | do. |
| 4in Reedylee (narrow and broad) do. | 2/4 ¹ / ₄ | do. |
| Spotlyte do. | 1/7 ¹ / ₄ | do. |
| 4in Calorex Cast do. | 1/7 ¹ / ₄ | do. |
| Flashed Opal (15/18oz) up to 1ft super | 1/8 | do. |
| do. do. over 1ft super .. | 4/2 | do. |
| Pot Opal (15/18oz) up to 1ft super | 5/- | do. |
| do. do. over 1ft super .. | 4/2 | do. |
| | 5/- | do. |

POLISHED PLATE GLASS (Tariff) Cut to sizes.

Ordinary substance $\frac{1}{8}$ in and $\frac{1}{4}$ in thick.

Per Superficial ft

General Glazing

In plates not exceeding:

| | | | | | |
|-------------------------------|----|----|----|----|-----|
| 2ft super in each | .. | .. | .. | .. | 4/7 |
| 5ft do. | .. | .. | .. | .. | 5/7 |
| 45ft do. (unless extra sizes) | .. | .. | .. | .. | 6/9 |
| 100ft do. (do.) | .. | .. | .. | .. | 7/4 |

Extra sizes, i.e., Plates exceeding 100ft super or 160in one way or 96in both ways at higher prices.

DECORATING MATERIAL

| | Price | Unit |
|--|-------|--------|
| Aluminium Paint | 41/- | Gallon |
| Distemper, ceiling | 39/- | Cwt |
| Distemper, washable | 120/- | do. |
| Enamel (eggshell) | 52/- | Gallon |
| Gold Metallic Paint (heat resisting) | 100/- | do. |
| Heat Resisting Paint | 40/- | do. |
| Japan, black | 35/- | do. |
| Knotting | 40/- | do. |
| Linseed Oil (5gal) | 16/- | do. |
| Boiled, do. (do.) | 15/6 | do. |
| Proprietary Paints (good class)— | | |
| Finishing | 57/6 | do. |
| Priming (lead base) | 57/6 | do. |
| Undercoat | 59/- | do. |
| Plaster Primer | 38/6 | Cwt |
| Petrifying liquid | 9/6 | Gallon |
| Putty | 52/6 | Cwt |
| Size | 12/3 | Firkin |
| Terebine | 22/- | Gallon |
| Turpentine substitute | 6/5 | do. |
| Varnish, oak, copal inside use | 39/- | do. |
| Do., do., outside use | 41/- | do. |
| Do., white, eggshell, flat | 50/- | do. |
| White lead mixed paint | 66/6 | do. |
| White lead | 167/6 | Cwt |
| Whiting | 13/3 | do. |

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protected on both sides
by bitumen and reinforced
with hessian.

*

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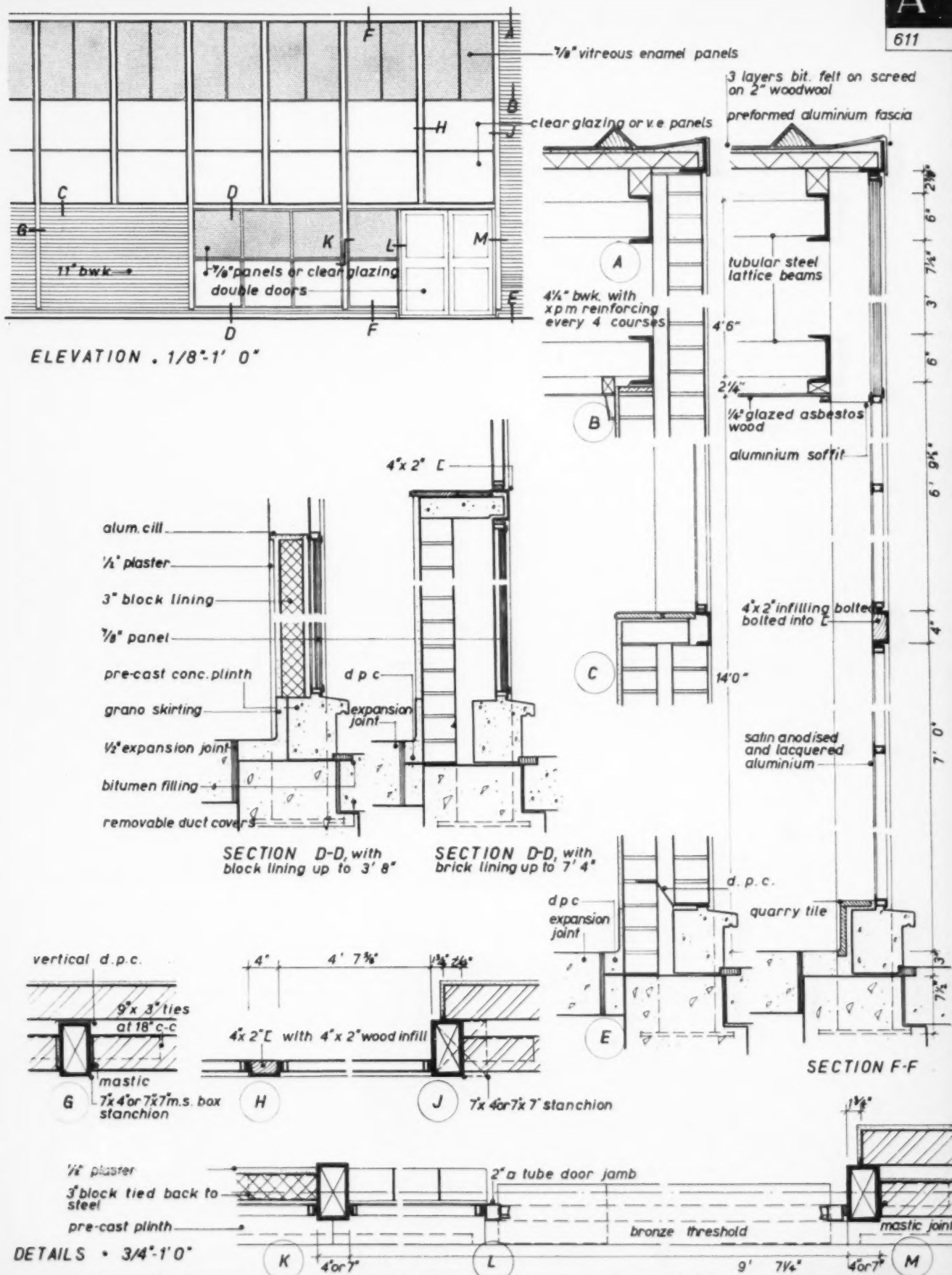
EXPERIENCE COUNTS

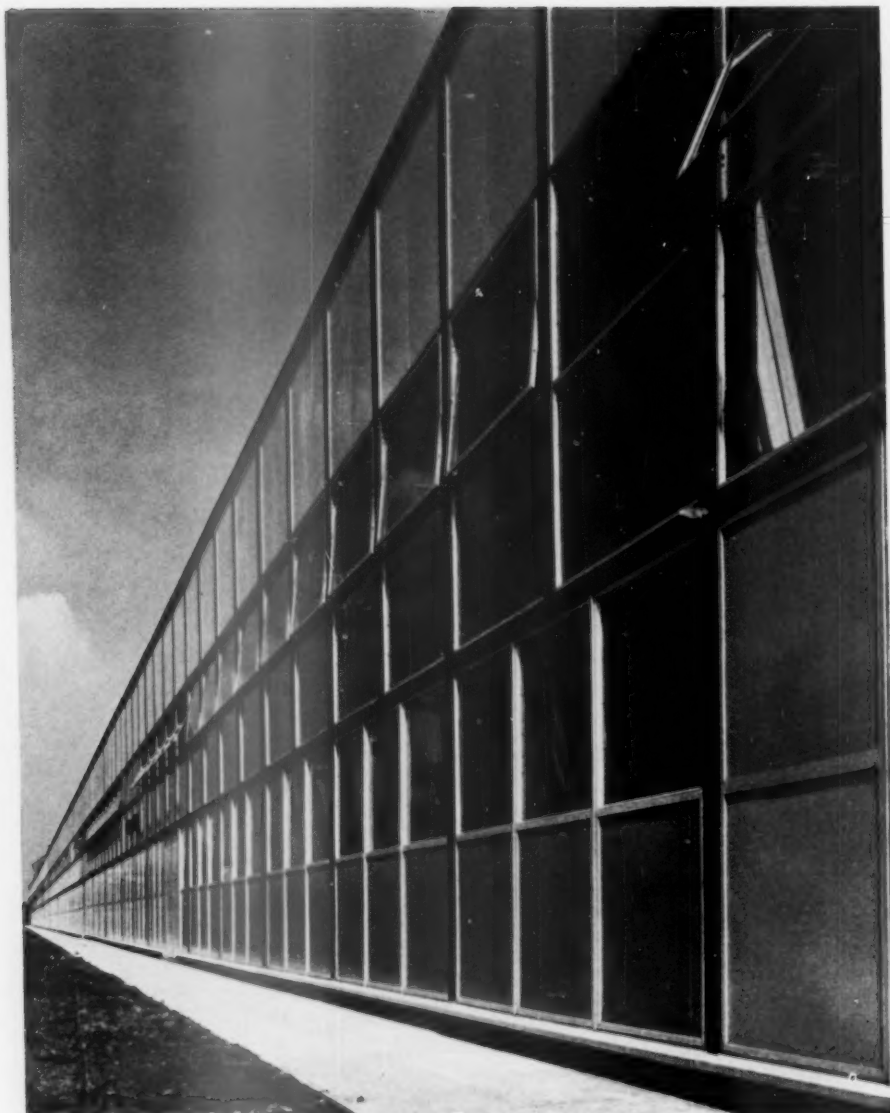


*Administrative and laboratory block.
Ashburton Chemical Works Ltd., Trafford Park, Manchester.
Architects: Scherrer & Hicks.*

J. GERRARD & SONS LTD.
SWINTON, MANCHESTER
AND AT LONDON & IPSWICH

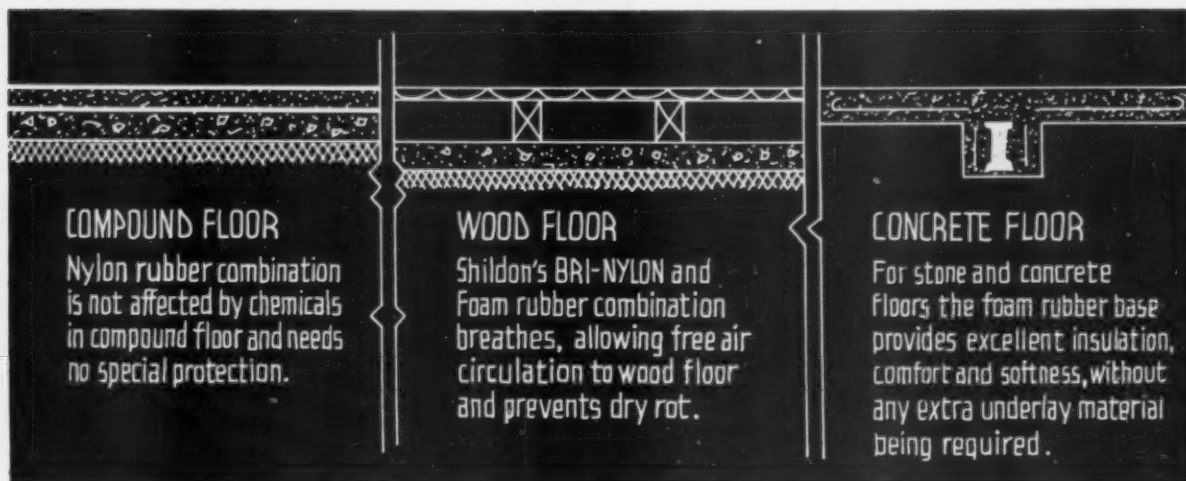
Building & Civil Engineering Contractors





The exposed steel columns to the Ilford Factory at Basildon have been subjected to a phosphate treatment before being painted with six coats of paint and a finishing coat of matt black emulsion. Opening lights occur at the three intermediate levels and are either top hung or centrally pivotted. Small canopies, one bay wide with a projection of 3ft 6in are placed above all doors, and are bolted to the channel section transome. Architect: Anthony B. Davies, Chief Architect to the Basildon Development Corporation

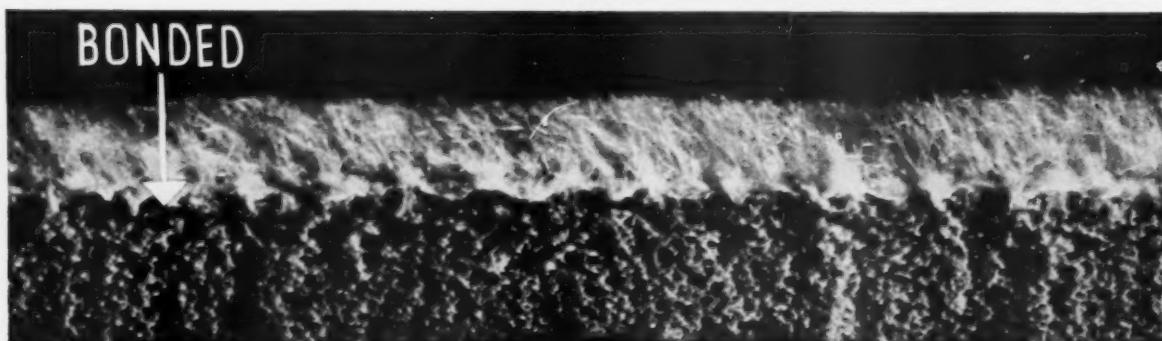
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FACTORY, BASILDON



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by Architect d...ews, 28 De



for the Architect

SIMPLICITY

Spur shelving system can be erected easily without skilled labour.

ADAPTABILITY

The position of Spur shelf brackets can be easily and rapidly changed as layout and shelving requirements alter. The shelf brackets are simply moved to other slots.

ATTRACTIVE

Spur shelving looks good and is made in attractive colours.

STRENGTH

Spur is scientifically built for the job and will take heavy loads.

ECONOMY

Spur saves erection costs and enables maximum use to be made of space.

SPUR to new ideas. Spur to better shelving. Spur to progress in design through this most modern and versatile shelving system!

Have you considered Spur? It is full of new possibilities for the architect—not only for shelving but for many other problems of support such as tables, desks and counter tops.

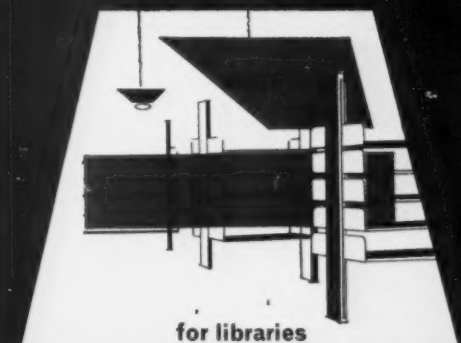
How SPUR shelving works

Spur relies on simple, detachable cantilever brackets. These are clipped into slotted 14 gauge steel uprights of U-Channel section. When shelving requirements alter—the brackets are simply moved to new positions—hence the countless applications for Spur in shops, stores, warehouses, libraries, laboratories, workshops and the home.

How SPUR helps design

As a feature of design alone—apart from their functional aspect—Spur units add a new and striking touch to any interior. Apart from the standard wall uprights, Spur double-sided uprights are made—ideal for room sub-division. Special Spur fitments are available for the most specialised shelving requirements, and brackets are made in standard and sloping types and in a range of sizes.

VERSATILE SHELVING SYSTEM?



SPUR



the
precision-built
shelving
system

MORE INFORMATION?

Write for this full and informative brochure which gives you full specifications and goes into detail on all SPUR units and fitments.

Specify the **SPUR** system for shelving

a superbly designed vitreous china suite for low-cost housing!

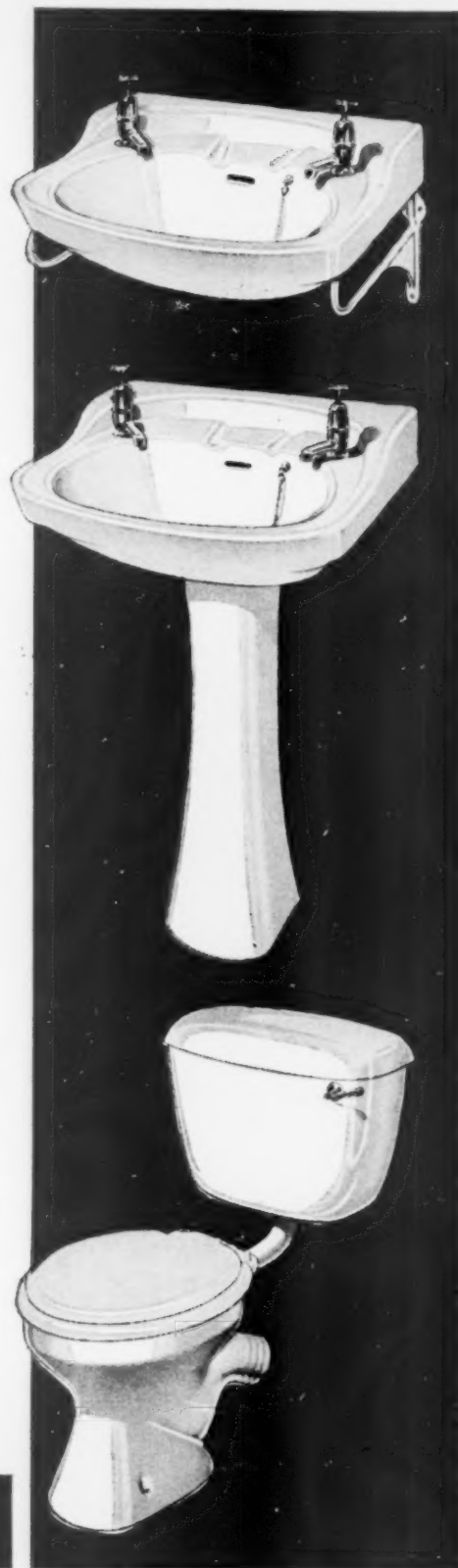
This is the Trimline Suite by 'Standard'. The wash basin is available on cast-iron wall brackets or a pedestal and the wash-down closet is coupled to a low-level cistern. Both appliances are distinguished by design of the highest quality. Made of vitreous china, they are strong and permanently hygienic. Specially intended to bring vitreous china to low-cost housing, the Trimline Suite is very competitively priced.

Trimline

VITREOUS CHINA SUITE

by

Standard



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Contract

News

WORK IN PROSPECT

Bridlington. Plans have been approved to extend the Corporation's factory, leased to Rigg Holdings Ltd.

Bristol Corporation. The health committee has approved proposals for a central ambulance station between Queen Street and Tower Hill.

Carlisle Corporation. The education committee has approved the general layout for the proposed Morton junior school in Langrigg Road.

Chatham. The town planning committee has approved the erection of printing works including offices and stores at 12 New Road Avenue for Parrett and Neves Ltd.

Coalville (Leics). Outline planning approval has been given to Triland (Property Holdings) Ltd. for a shopping centre, cost £750,000.

Darlington. Workshops and offices are proposed at Priestgate for the North of England Newspaper Co. Ltd.

Doncaster Corporation. The education committee recommends approval to sketch plans for the proposed extensions to the technical high school for boys.

Downpatrick (Co. Down) U.D.C. propose 34 dwellings in Irish Street and 17 in Saul Street, estimated cost £105,000.

Dublin C.C. Proposed erection of 134 houses at Finglas West, estimated cost £195,358.

Isle of Wight C.C. The health committee recommends approval to a scheme for an annexe to Inver House, Bembridge, to provide accommodation for a further 15 persons, estimated cost £12,250.

Leeds. Plans have been approved for the erection of printing works, warehouses and offices on a site bounded by Shannon Street, York Road, etc., for Jowett and Sowry Ltd.

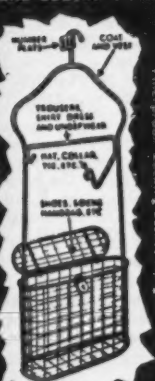
London C.C. The education committee has approved (1) reconstruction of Tudor secondary school, Islington, cost £443,000; (2) a scheme to extend and improve Vauxhall Manor school, Lawn Lane, Lambeth, estimated cost £68,800; (3) plans for (i) building at 24-40 Fore Street, 53-62 Wood Street, Aldermanbury, and other streets; (ii) multi-storey office building at Holborn Viaduct and Snow Hill.

The housing committee has approved a scheme for the modernization of blocks

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- * SAVES SPACE
- * SAVES COST
- * PRESERVES GARMENTS
- * ENSURES HYGIENE
- * AIRS AND DRIES WET CLOTHING
- * REDUCES ABSENTEEISM
- * MEETS NEW FACTORY ACT



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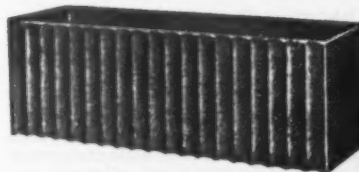
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1 and 4 Briscoe Buildings, Brixton Hill; the existing 10 two-room flats, 73 three-room flats, 30 four-room flats are to be converted into three one-room flats, 10 two-room flats, 22 three-room flats and 28 four-room flats, estimated cost £84,610.

The town planning committee has approved a scheme for the construction of unit workshops in Locksley Street, Stepney, estimated cost £95,000.

Luton Corporation has approved final drawings for the proposed slaughterhouse in Toddington Road. A workshop and offices are proposed by H. F. Scriven Ltd. in Duke Street and Taylor Street.

Lytham (Lancs). Erection of a factory on part of the former RAF camp, near Warton, for W. C. Evans & Co. (Eccles) Ltd.

Mitcham (Surrey). Plans are recommended for approval for building at 45-47 Christchurch Road for Shirley and Warbey Box Co. Ltd.

Newcastle-on-Tyne. Proposed extensions to factory for S. Maclean & Co. in Heaton Road.

Nottingham. The Ministry of Education has given permission for the proposed Roman Catholic teachers' training college, estimated cost £750,000.

Oakengates (Shropshire). Plans have been approved for extensions to the factory in Leonard Street for Gasel Ltd.

Paddington B.C. The housing committee has approved a scheme for the erection of a four-storey block of eight three-room flats at 3-11 Fermoy Road, estimated cost, including the purchase of land, £27,632.

Portadown (Co. Armagh). The Northern Ireland Housing Trust propose the erection of 412 houses at Portadown.

Portsmouth. The erection of a factory is planned in St. George's Square by J. Cockerill & Son, cost £100,000.

Rugby B.C. propose the erection of a Corporation highways depot in Hunter Lane, cost £108,000.

Scarborough Corporation. The development committee has approved the development of the Aquarium Top site to provide underground car parking facilities, amenity gardens and public conveniences.

South Shields Corporation. The housing committee has approved a proposal to erect a children's nursery on the Prince Edward Road/Reading Road site.

Spilisbury R.D.C. Old people's dwellings are proposed in Ancaster Avenue, Chapel St. Leonards.

St. Pancras B.C. The public buildings committee has approved a scheme for the improvement of the refreshment room at the Assembly Rooms, estimated cost £7,029.

Surbiton Corporation. The library committee has approved a revised scheme for a library store, lecture hall and public convenience alongside the public library.

Wallingford (Berks). Extensions are planned at the Hydraulic Research Laboratories for the Ministry of Works, estimated cost £200,000.

SUBMISSIONS FOR PLANNING AND BYE-LAW APPROVAL

Accrington Corporation. Plans submitted for (1) installation of shopfronts at (i) Broadway and Cornhill for Marks & Spencer Ltd.; (ii) Broadway/Union Street for F. W. Woolworth Co. Ltd.; (2) outline for (a) petrol filling station in Blackburn Road for Shell-Mex & B.P. Co. Ltd.; (b) proposed supermarket in Abbey Street for Melias Stores Ltd.

Bootle Corporation. Plans submitted for (1) erection of (a) two houses at 74/78 Gonville Road for Eleanor Properties Ltd.; (b) factory in Dunning's Bridge Road for Furlongs Fishcakes Ltd.; (2) extension of dry storage accommodation and motor transport cover at 240 Hawthorne Road for Wm. Ross Ltd.

Bournemouth Corporation. Plans submitted for (1) erection of (a) three-storey block of nine flats with garage accommodation for 17 cars in Belle Vue Road for W. J. Sibley & Son; (b) seven-storey block of 35 semi-contained flats with garage accommodation for 35 cars in Branksome Wood Road for Gatley Properties Ltd.; (c) 10-storey block of 33 flats with garage accommodation for 31 cars under at 42 Gervis Road for Maldic Property Co. Ltd.; (d) factory in Wallisdown Road for D. Drake & Son Ltd.; (e) six-storey block of 24 semi-contained flats with garage accommodation for 24 cars at 26 Boscombe Cliff Road for Bourneflats Ltd.; (f) six-storey block of 18 semi-contained flats with garage accommodation for 18 cars under in Manor Road for Southern Counties Property Investments Ltd.; (g) office block with canteen over at 869/873 Ringwood Road for Boyland & Son; (h) 15 bungalows and garages in Shapland Avenue for Bournelands Ltd.; (2) alterations and additions (a) to Pavilion Hotel in Bath Road for Hardon Hotels Ltd.; (b) to form two shops, stores, offices, two semi-contained flats and one maisonette at 487/489 Christchurch Road for Fairmead Developments Ltd.; (3) layout for (a) nine-storey block of 36 semi-contained flats with integral garage accommodation for 36 cars at 28 Derby Road for Mrs. E. Higson and E. A. Manson; (b) six-storey block of 24 semi-contained flats with garage accommodation under at 25 West Cliff Road for N. Miles; (c) seven-storey block of 21 semi-contained flats and

garage accommodation under for 21 cars in Branksome Wood Road for Lambert Steele & Shepherd; (d) four-storey block of 16 semi-contained flats with integral garage accommodation for 16 cars at 33 Cavendish Road for H. E. Hawkesford; (e) three-storey block of nine semi-contained flats and nine surface garages at 9 Marlborough Road for Canford Development Co. Ltd.; (f) three-storey block of nine flats with garages under for nine cars at 4 Milton Road for Mrs. J. Beavis; (g) eight-storey block of 32 semi-contained flats with garage accommodation under for 32 cars at 27 Poole Road for Mrs. I. Reece and Miss S. Colborn; (h) three-storey block of 12 flats with garage accommodation under for 12 cars at 144 Richmond Park Road for RSPCA; (i) 45-storey block of 32 semi-contained flats with garage accommodation for 32 cars at 4 Warren Edge Road for Mrs. E. M. Worley; (j) 10-storey block of 56 semi-contained flats and 11-storey block of 59 semi-contained flats with garage accommodation for 115 cars in Branksome Wood Road for George Wimpey & Co.; (4) extension to factory at 23 Abbott Road for Richmond Hill Printing Works Ltd.; (5) conversion of Classic Cinema, 170 Seabourne Road, into a supermarket and first floor offices with two semi-contained flats over for Daejan Properties Ltd.

Brighton Corporation. Plans submitted for (1) erection of (a) 30 semi-detached bungalows with internal garages at 1-10 and 21-40 Hollingdean housing site for Pavilion Self-Build Housing Association; (b) 16 semi-detached houses and garages in Road No. 3 Hollingdean housing estate for Wild Park Self-Build Association; (c) five bungalows at 42-50 McWilliam Road for R. Alexander; (d) terrace of five houses, Block 5, Anscobes Nurseries, Bristol Gardens, for R. Green (B'ton) Ltd.; (2) conversion of (a) 38 Grand Parade into suite of offices on first floor, modification of second and third floors to form semi-contained maisonette for The Alnite Business Estate Agency; (b) 43 Sillwood Road into four semi-contained flats for F. W. Snell; (3) outline for (a) four-storey office block at 13, 14 & 15 Richmond Place for National Employers' Mutual General Insurance Association Ltd.; (b) office block with garages/car parking at 139 Preston Road for The Merchant Princes Co. Ltd.

Chelmsford Corporation. Plans submitted for (1) erection of (a) stores building, offices and showroom, petrol pumps and formation of two vehicular accesses to Broomfield Road for Pollards Ltd.; (b) 50 semi-detached and five detached dwellings and 55 detached garages at 2-36, 62-86 and 1-47 Totnes Walk for Percy Bilton Ltd.; (c) warehouse and showroom at Robjohns Road, Widford industrial estate, for E. L. Hunt Ltd.; (d) six two-room flats and 25 one-unit garages at 24 Rainsford Lane for J. D. Long; (2) rebuilding of shop at 24/25 High Street, R. H. Sykes for J. Lyons & Co. Ltd.; (3) outline for (a) houses on land between Sunrise Avenue, Broomfield Road, Kings Road, Eves Crescent and Brownings Avenue, Taylor & Collister for Marconi's Wireless & Telegraph Co. Ltd.; (b) 17 detached houses with garages at the rear of 264, 266a and 268 Springfield Road, S. G. Hunt & Partners for Mr. D. Bellamy; (4) extension comprising 20 bedrooms, games, dining

room and lounge at 211 New London Road, Laurence E. Brown for L. A. Cherry; (5) extension and modernization of existing slaughterhouse at the Central Depot, Coval Lane, R. A. Boxall for Chelmsford Star Co-operative Society Ltd.

Dartford Corporation. Plans submitted for (1) erection of (a) building for light engineering at rear of Lawson Road for Burnham Engineering Co.; (b) extension to factory at Riverside Mills for London Paper Mills Co. Ltd.; (c) welfare block at Victoria Wharf, Victoria Road, for Amalgamated Oxides Ltd.; (d) shops and offices at 72-80 East Hill for C. Brewer & Sons Ltd.

Eccles Corporation. Plans submitted for (1) erection of (a) workshop extension at Bentcliffe Works in Wood Street, Pendleton, Dickinson for Ward & Goldstone Ltd.; (b) staff association club building at the junction of Monton Road and Wellington Road for J. K. Abson, Estate & Rating Surveyor, British Transport Commission (L.M. Region); (2) alterations and extensions to Barton Inn, Cawdor Street, G. W. Dishman & Associates for Threlfalls Brewery Co. Ltd.; (3) conversion of The Manse, Belgrave Crescent/Cambridge Grove, into four flats for E. Upton.

Glasgow Corporation. Plans submitted for (1) erection of (a) single-storey extension to works in Foulis Street/Caxton Street, W.3, for Robert Maclehoose & Co. Ltd.; (b) administrative buildings in Drakemire Drive, S.5, for the Ministry of Works; (c) St. Bernadette's primary school at 435 Bilsland Drive, N.W., and college and two houses for janitors in Rye Road for the corporation education department; (d) three-storey block of 24 three-apartment houses in Galloway Street/Cairn Street, two three-storey blocks of 12 three-apartment houses in Allander Street/Fruin Street, N.2, one three-storey and two four-storey blocks of houses in Bellrock Street, E.3, and five blocks of flats for aged persons in Dee Street, E.3, for the corporation housing department; (e) four-storey building with basement at 36 Argyle Street and Miller Street, C.2, for F. Woolworth & Co. Ltd.; (f) four-storey factory with basement car park in Stirling Road/Cathedral Street/St. James' Road, C.4, for William Collins Sons & Co. Ltd.; (g) 16 three-apartment terrace type houses in Norfield Drive, S.4, for Lawrence Building Co. Ltd.

Hull Corporation. Plans submitted for (1) erection of (a) research and development block in Marfleet Avenue for J. H. Fenner & Co. Ltd.; (b) factory and boilerhouses in Leads and Sutton Roads for Manufacturers Equipment Ltd.; (c) additional floor to offices at Kingston Works, Danson Lane, for Reckitt & Sons Ltd.; (d) joiners' shop at the rear of Dairycoates Works for The Metal Box Co. Ltd.

Manchester Corporation. Plans submitted for (1) erection of (a) office block to factory in Ledson Road; (b) caretaker's flat and works of re-roofing to Alport House, Lower Byrom Street; (c) light engineering workshop and offices in Broughton and Stanley Streets; (d) two-storey shops and office at 487/489 Stockport Road; (e) humanities building adjoining 42 Devas Street; (f) three-storey showrooms, offices and warehouse in Dantzic Street, Cavalry Street, Cavalry Lane and Ashley Street, City; (g) licensed premises in Wythenshawe and Rackhouse Roads, Northenden; (h) six-storey office block and showrooms and rebuilding of licensed premises in Princess Street, Granby Row and Railway Viaduct; (i) six-storey shop and office block with basement garage at 14 John Dalton Street and 9-13 Ridgfield Street; (j) seven-storey office block with basement car park at 75 Mosley Street; (k) boilerhouse, canteen and offices at Red Tower Lager Brewery, Denmark Road and Brayshaw Street, Moss Side; (2) conversion of (a) factory and stores in Clayton Lane into offices; (b) 156/158 Corporation Street to form an extension to the adjoining public house.

Paddington B.C. Plans submitted for (1) erection of (a) flats and shops in Sussex Gardens, Southwick Street, Star Street and Norfolk Place; (b) four-storey side addition to 87 Talbot Road; (c) three three-storey cottages at 2/3 Frederick Close; (d) building for German YMCA at 36 Craven Terrace; (2) conversion of (a) 76 Lancaster Gate to form extension to the Park Court Hotel; (b) 1/7 St. Petersburg Place into smaller semi-contained flats.

Peterborough Corporation. Plans submitted for (1) extensions to factory in (a) Oxney Road for F. Perkins Ltd.; (b) Queen's Walk for J. P. Hall & Sons Ltd.

St. Pancras B.C. Plans submitted for (1) erection of (a) block of 11 housing units and three studios with living accommodation and 10 garages in Wakefield Street; (b) block of 10 shops with 26 flats over at 182/202 Kentish Town Road and six flats at 1/7 Gaiford Street; (c) seven-storey building for commercial purposes at ground and first floor and maisonettes above at 17/25 Whitfield Street and 19/22 and 24 Colville Place; (d) shops, offices, flats and basement car park in Tottenham Court Road; (e) car showrooms with three floors of flats over at 11 Warren Street; (f) building for offices, showrooms, etc., and two flats at 73/75 Charlotte Street; (g) Indian students' hostel at 57/61 Grafton Way; (h) block of flats at 18/19 Chalcot Square.

Torquay Corporation. Plans submitted for (1) erection of (a) bungalow and garage and 17 holiday chalets at Barton Quarry Caravan Park, Fore Street, Barton, for N. Eynstone-Hinkins; (b) factory and offices at the junction of Pavor Road and Fore Street, Barton, for Selectrics Coin-

mechs Ltd.; (c) eight-storey and one 10-storey block totalling 72 flats in Braddons Hill Road East for Braddenfield Developments Ltd.; (d) 18 pairs of semi-detached houses and 10 bungalows all with garages on plots 195-240 Drake Avenue and Nut Bush Lane for Chelston Building Co. Ltd.; (e) super market at 23/25 Union Street for Lynton Holdings Ltd.; (2) outline for four-storey block of 54 flats with 24 garages after demolition of Lucerne Hotel and Raithwaite Hotel, Lower Warberry Road, for Wells Estates (Devon) Ltd.; (3) demolition of existing buildings and erection of two 11-storey blocks each of 66 flats on sites of Thorncliff and Anstays Manor, Asheldon Road, for Major H. Stanway and J. W. Crawley; (4) conversion of 9 Thurlow Park into four flatlets with car park for Miss P. R. Wright; (5) dining room extension to form 14 guest rooms and bathrooms, boiler room, and additional circulation space at Imperial Hotel, Parkhill Road, for The Torquay Hotel Co. Ltd.

Westminster C.C. Plans submitted for the erection of (a) showrooms and flats at 11/16 Park Lane, 2/8 Brick Street and 2/18 Grantham Place; (b) flats and pumping station at 78 and 78a, Grosvenor Road; (c) shops, offices and hotel accommodation at 11, 14 and 15 Strand and 41/46 Craven Street; (d) office building at 22/40 Victoria Street and 6/8 Broadway; (e) residential building at 14 Cleveland Row; (f) shops and offices at 2/8 Victoria Street; (g) shops, showrooms, storage accommodation, offices and flats at 49/75 Buckingham Palace Road.

Worthing Corporation. Plans submitted for (1) erection of (a) block of four houses in Roedean Road, Kendrick Findlay & Partners for D.P.X. Properties Ltd.; (b) office building with penthouse flats over on second floor in The Causeway, Feast & Anderson for Lloyds Bank Ltd.; (2) outline for flats at 60 Richmond Road, Jordan & Cook for H. C. C. Taylor.

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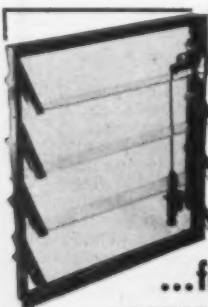
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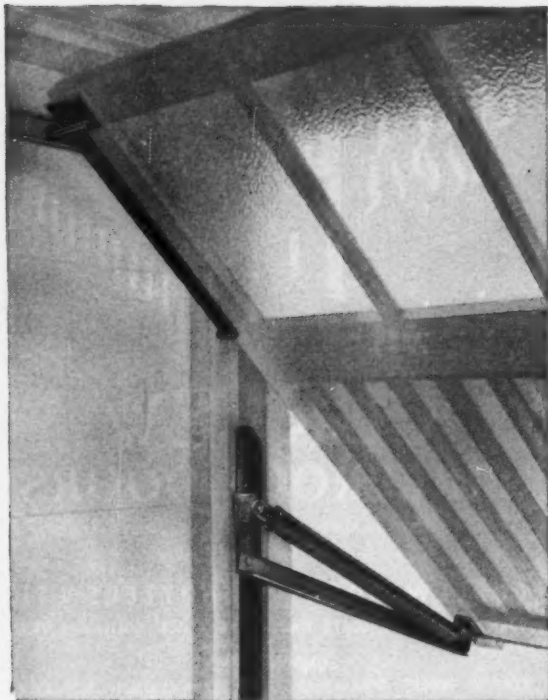
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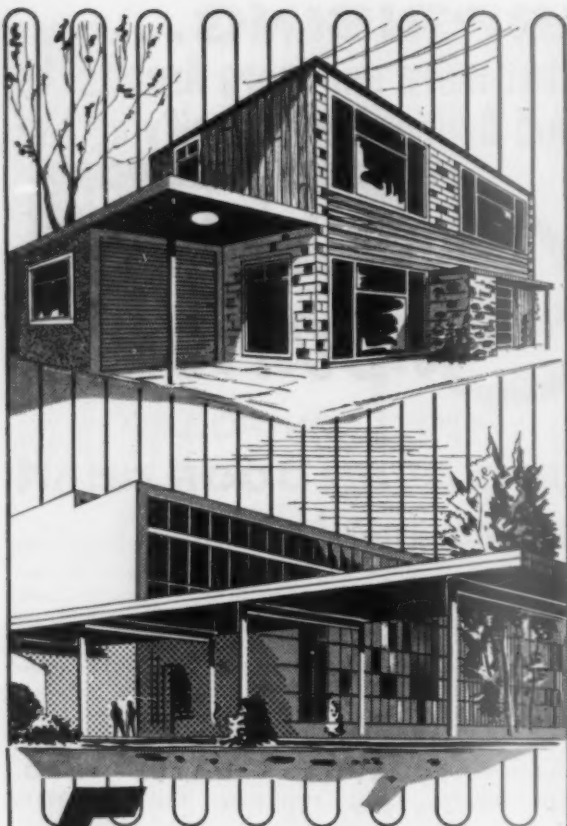
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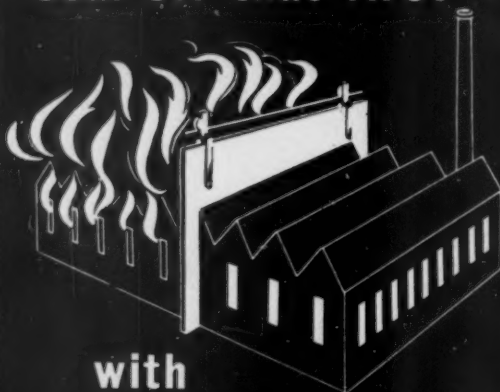
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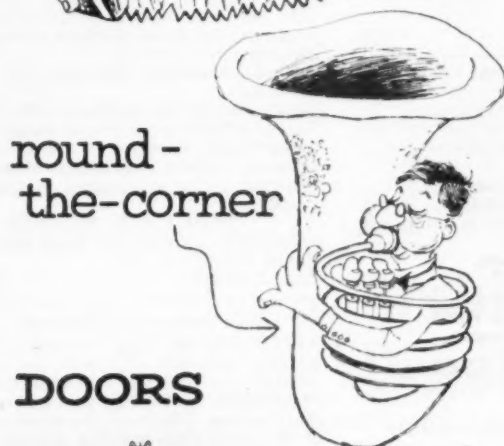
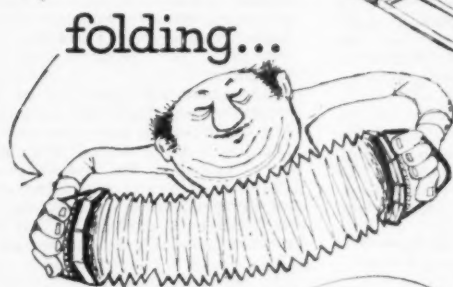
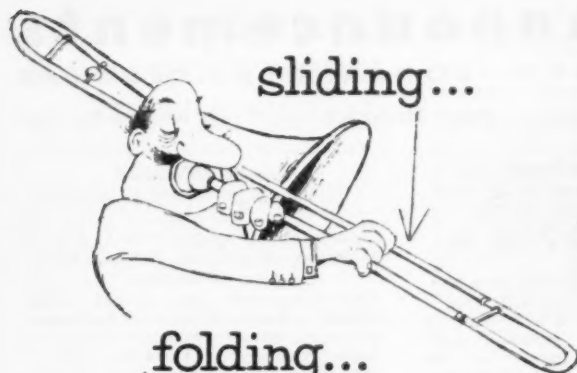
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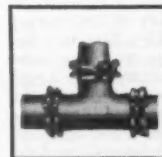
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Official Announcements

APPOINTMENTS CONTRACTS TENDERS

Close for press • first post Monday for following Wednesday issue. Rates • 25s per inch and pro rata, minimum half inch.

CLASSIFIED ADVERTISEMENTS
CHRISTMAS PRESS NOTICE
 The issue dated JAN. 4th will close for Press on
 FRIDAY, DEC. 30th.

APPOINTMENTS

City of Leeds

CITY ARCHITECT'S DEPARTMENT

The following senior vacancies occur in the Quantity Surveying Section which deals with all aspects of a large and varied programme including Schools, Hostels, Multi-storey Flats and other similar schemes.

Post No. 1.

Senior Assistant Quantity Surveyor, Grade 'B'. Salary scale of £1,505 to £1,670.

Applicants should have had wide experience in the preparation of Bills of Quantities for major works including schools and large public buildings. The successful applicant will be engaged in the preparation of Bills of Quantities.

2. Senior Assistant Quantity Surveyor, Grade 'A'. £1,455 to £1,565.

Applicants should have wide experience in all aspects of a Quantity Surveyor's duties.

Applicants for both posts should be suitably qualified.

The appointments are superannuable. Medical examination.

ASSISTANCE WILL BE GIVEN IN PROVIDING HOUSING ACCOMMODATION IN APPROVED CASES, IF REQUIRED.

Application forms may be obtained from the undersigned.

The closing date for the receipt of applications is 9th January, 1961, and these are to be sent to the City Architect, Priestly House, Quarry Hill, Leeds, 9.

Canvassing disqualifies.
J. R. SHERIDAN-SHEDDEN,
 Priestly House, City Architect.
 Quarry Hill,
 Leeds, 9.

[7400]

Bracknell Development Corporation

APPLICATIONS are invited for posts in the following Grades in the Chief Architect's Department.

(1) **Architect, Grade VI;** Salary range £1,305-£1,565.

(2) **Architect, Grade IV;** Salary range £1,140-£1,310.

(3) **Architect, Grade III;** Salary range £960-£1,140.

The posts offer a variety of interesting contemporary work. The Minister has also just completed his statutory consultations with the County and Local Authorities on a proposal to extend the scope of the New Town by increasing the designated area from 1,850 to 3,050 acres. Superannuation schemes, medical examination, 5 day week. Good housing accommodation available for each post. Applications, stating post applied for and giving age, education, qualifications, experience and appointments held (with dates and salaries), and the names of two referees, should be addressed to the General Manager (A), Bracknell Development Corporation, Farley Hill, Bracknell, Berks, to be received not later than 11th January, 1961.

[7422]

County Borough of Eastbourne
 Construction of Congress Theatre with
 Restaurant, External Works
 and Engineering Services

APPOINTMENT OF CLERK OF WORKS

APPLICATIONS are invited from suitably qualified men, having wide experience in the supervision of large building construction projects, including reinforced concrete structures, for the appointment of Clerk of Works in connection with the above-mentioned building. The appointment will be a temporary one for the duration of the contract (estimated at 2 years) and the salary to be paid will be at the rate of £1,000 per annum. Applications, on forms obtainable from the undersigned, must be returned duly completed by not later than 11th February, 1961.

F. H. BUSBY,

Town Clerk.

Town Hall, Eastbourne.
 16th December, 1960.

[7420]

The County Council of the County of Wigtown

County Architect's Department
 APPLICATIONS are invited for the following permanent appointments:—

(a) **Assistant Architects.**

Salary Scale—£1,048 x £63(4) to £1,300.

Applicants must be ARIBA, having some experience preferably in design and construction of schools.

(b) **Architectural Assistants.**

Salary Scale—£805 to £915.

Applicants must have passed the Intermediate examination of the RIBA.

(c) **Architectural Draftsmen.**

Salary Scale—£675 to £795.

Placing on scales according to experience. Housing accommodation may be provided.

Medical examination. Superannuation. Applications, stating age, particulars of experience and qualifications and giving the names of two referees should be lodged with the undersigned within 14 days of the date of publication of this advertisement.

D. A. AITKEN,

County Clerk.

County Offices,

Sun Street,

STRANRAER.

13th December, 1960.

[7419]

City of Oxford

City Architect and Planning Officer's
 Department

CLERKS OF WORKS required to supervise erection of new buildings, including houses, schools and general works. Salary £895 per annum. National Conditions of Service.

Practical knowledge of all branches of building trade essential, with experience of setting out, taking levels, measuring up, keeping records and making reports. **HOUSING ACCOMMODATION PROVIDED.**

Application forms to be obtained from the City Architect and Planning Officer, Town Hall, Oxford. Closing date 7th January, 1961.

HARRY PLOWMAN,

Town Clerk.

Town Hall,
 Oxford.

14th December, 1960.

[7418]

Borough of Enfield

Borough Engineer and Surveyor's
 Department

(Non-County Borough in the County of Middlesex—Population 109,700. Area—12,400 acres).

APPLICATIONS are invited, from suitably qualified persons, for the following permanent appointment:—

Junior Architectural Assistant—APT I— £645-£815 per annum plus London Weighting.

The commencing salary will be fixed at points within the Scale commensurate with qualifications and experience.

There is a large varied programme of work, including the redevelopment of Clearance Areas and other areas scheduled for Comprehensive Development.

HOUSING ACCOMMODATION may be made available in appropriate cases. The Council is also prepared to consider 100 per cent advances to successful applicants for house purchase within the Borough.

Saturday mornings are normally free from duty.

Application forms, obtainable from H. D. Peake, MSc(Eng), MICE, Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middlesex, must be delivered to the undersigned as soon as possible.

CYRIL E. C. R. PLATTEN,

Town Clerk.

Public Offices,
 Enfield, Middx.

[0848]

The University of Sheffield

APPLICATIONS are invited from qualified architects of at least five years' standing for the post of **ASSISTANT PLANNING OFFICER**, who will assist the Planning Officer in the supervision of the University's building programme. The work will be varied and interesting and will cover both teaching buildings and Halls of Residence. Commencing salary according to experience within the scale £1,325 x £75-£1,850 with family allowance of £50 per child and FSSU benefits. Further particulars and forms of application may be obtained from the Bursar, The University, Sheffield, 10, to whom applications should be sent by 10th January, 1961.

[7417]

The Rural District Council of Godstone

ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for the above appointment in the Engineer and Surveyor's Department at a salary in accordance with Grade APT III (£960-£1,140). A car allowance on the essential user basis is payable for a car not exceeding 1,199 c.c.

Candidates should have passed the Intermediate RIBA examination.

Assistance will be given in the provision of housing accommodation, if required.

Applications stating age, qualifications, present and previous appointments, and experience, together with the names and addresses of two referees should reach the undersigned not later than 6th January, 1961.

M. HAWORTH,

Clerk of the Council.

Council Offices,
 Oxted, Surrey.

[7405]

Official Announcements

APPOINTMENTS (cont)

National Coal Board—North Eastern Division

REQUIRE in Architects Branch at Conisbrough, Nr. Doncaster:—

(a) **Architect** to take charge of Section dealing with planning and construction of Social Welfare Centres, Sports Pavilions, Old People's Homes, Youth Clubs, etc.

Qualifications—ARIBA, and experience of dealing with and advising Committees. Salary—£1,240 x £45-£1,625. (Quote AA/579).

(b) **Architect** to act as Leading Assistant to Section Architect. The work covers a wide and varied field and all stages of projects.

Qualification—ARIBA.

Salary—£900 x £35-£1,250.

(Quote AA/585).

(c) **Architectural Assistants**. The work is varied and interesting, covering sketch plan, working drawing and construction stages.

Salary—£785 x £30-£1,100.

(Quote AA/599).

All posts are superannuable, the staff work a 5-day week, and Canteen facilities are available.

Write for application forms, quoting references as shown above, to Staff Department, 16 South Parade, Doncaster, by 6th January, 1961. [7414]

Borough of Enfield Borough Engineer & Surveyor's Department

(Non-County Borough in the County of Middlesex—Population 109,700: Area—12,400 acres).

APPLICATIONS are invited, from suitably qualified persons, for the following permanent appointments:—

1. ASSISTANT ARCHITECT—APT IV—£1,140-£1,310 plus London Weighting.

2. ARCHITECTURAL ASSISTANTS—APT III—£960-£1,140 plus London Weighting.

The commencing salary will be fixed at points within the Scale commensurate with qualifications and experience.

The successful applicants will be engaged, inter alia, on the preparation of three-dimensional schemes for the redevelopment of the Town Centre as a pedestrian shopping precinct, the design of multi-storey point blocks of flats, and the redevelopment of clearance areas.

HOUSING ACCOMMODATION may be made available in appropriate cases.

The Council is also prepared to consider 100% advances to successful applicants for house purchase within the Borough. Saturday mornings are normally free from duty.

Application forms, obtainable from H. D. Peake, MSc(Eng), Borough Engineer & Surveyor, 7 Little Park Gardens, Enfield, Middlesex, must be delivered to the undersigned as soon as possible.

CYRIL E. C. R. PLATTEN,
Public Offices,
Gentleman's Row,
Enfield, Middx. [0851]

Australia

The University of New South Wales CHAIR OF ARCHITECTURE

THE University invites applications for appointment to the newly established second Chair of Architecture.

Applicants must have high academic architectural qualifications and be members, or be eligible for membership, of the RIBA or the RAIA. Experience in the practice of architecture, preferably in planning and design, and in teaching or lecturing is essential. A knowledge of the aims and methods in the professional education of architects, together with ability to supervise teaching staff, is required.

The Professor will be responsible, inter alia, to the Head of the School of Architecture and Building (who is also Dean of the Faculty of Architecture) for the day-to-day teaching standards and conduct of the undergraduate courses leading to the degree and diploma in architecture, both of which are fully recognised professional courses taken by full-time and/or part-time study (five to eight years).

The Professor will be expected to collaborate in the work of the Faculty and serve on the Professorial Board and other committees.

Salary will be £A4,279 p.a.

Subject to the consent of the Council of the University, Professors may engage in a limited amount of higher consultative work.

The successful applicant will be eligible, subject to satisfactory medical examination, to join the superannuation scheme which provides a maximum pension of £A2,184 p.a.

First Class ship fares to Sydney of the appointee and his family will be paid. Professors are eligible for six months' study leave on full salary after three years of service, or twelve months after six years of service.

The University reserves the right to fill the Chair by invitation.

With the approval of the University and its bankers, married men may be assisted by loans to purchase a home.

4 copies of applications (including the names of 3 referees and a recent photograph of the applicant) should be lodged with the Agent General for New South Wales, 56-57 Strand, London, W.C.2, and a copy forwarded to the Appointments Section, The University of New South Wales, Box 1, Post Office, Kensington, N.S.W., Australia, by air-mail to reach there before 10th FEBRUARY, 1961. Applicants outside the United Kingdom need only submit one copy of their application to the London address. [7424]

The Rural District Council of Godstone TOWN PLANNING ASSISTANT

APPLICATIONS are invited for the above appointment in the Engineer and Surveyor's Department at a salary in accordance with Grade APT II (£815-£960). A car allowance on the essential user basis is payable for a car not exceeding 1,199 c.c.

Assistance will be given in the provision of housing accommodation, if required. Applications stating age, qualifications, present and previous appointments, and experience, together with the names and addresses of two referees should reach the undersigned not later than 6th January, 1961.

M. HAWORTH,
Clerk of the Council.

Council Offices,
Oxted, Surrey.

[7406]

WELSH REGIONAL HOSPITAL BOARD

Required in Architect's Department

which is situated in Cardiff's City Centre

(a) Architectural Assistants

Applicants must hold the Intermediate Examination of the Royal Institute of British Architects or an examination giving exemption therefrom.

Salary: £625 - £900

New entrants to the Health Service will commence at the minimum point of the salary scale, but the Board has discretion to fix a commencing salary above the minimum, within certain defined limits, where it is considered a candidate has relevant practical experience appropriate to the post to be filled.

(b) Junior

To give general assistance to technical officers. Candidates should have obtained 5 subjects at G.C.E. 'O' level (including Mathematics and English), at least 3 subjects being gained at the same examination.

Preference given to candidate prepared to study; assistance can be given to staff pursuing recognised courses of study.

Salary: £250 at age 16, £320 age 18, £375 age 20, rising by annual increments to £510 at age 25.

Posts are superannuable and a five day week applies.

Applications giving names of two referees and stating: post (a) age, qualifications, experience, present position and salary; post (b) age, education, previous experience (if any), to Secretary, Welsh Regional Hospital Board, Temple of Peace and Health, Cathays Park, Cardiff, within 14 days.

Official Announcements

APPOINTMENTS (cont)

City and County of Kingston upon Hull APPOINTMENT OF CITY ARCHITECT

APPLICATIONS are invited from persons who must be Registered Architects and either Fellows or Associates of the Royal Institute of British Architects, for the appointment of City Architect to the Council, at a salary scale within the range prescribed by the Joint Negotiating Committee for Chief Officers of Local Authorities, which has been fixed by the Council at £3,130 per annum rising by three annual increments of £125 to a maximum of £3,505 per annum.

Particulars of the appointment and forms on which applications should be made are obtainable from the Town Clerk. Applications endorsed "City Architect" must reach the Town Clerk, Guildhall, Kingston upon Hull, not later than 20th January, 1961.

J. HAYDON W. GLEN,
Town Clerk.

Guildhall,
Kingston upon Hull.
December, 1960. [7423]

ARCHITECTURAL STAFF

Sydney Greenwood, ARIBA, Chief Architect

JOHN LAING & SON LTD.—
requires

ARCHITECTS, ASSISTANT ARCHITECTS and ARCHITECTURAL ASSISTANTS for a recently established office in Manchester.

This office will be responsible for all types of Architectural projects undertaken by the department.

Architects should be qualified with at least five years' experience in Schools, Industrial and Commercial Projects. Assistant Architects should be qualified with 2/3 years' similar experience including Domestic experience.

Architectural Assistants should be of Intermediate Standard with 2/3 years' experience in Architect's office.

There are excellent opportunities within an expanding organisation including pension scheme and other progressive benefits.

Applications giving brief details to Personnel Manager (MRG2), John Laing & Son Ltd., Page Street, Mill Hill, N.W.7, or arrangements for interviews can be made by telephone (Telephone Mill Hill 3636). [0845]

Australia The University of New South Wales Vacancy for

HEAD OF SCHOOL OF

ARCHITECTURE AND BUILDING

APPLICATIONS are invited for the position of Head of the School of Architecture and Building at Kensington which will fall vacant on the retirement of Professor F. E. Towndrow, present Head of the School and Dean of the Faculty of Architecture, in January, 1962. The University hopes that the successful applicant will enter on duty not later than June, 1961.

The salary of the position will be £A4,279 per year. As the new Head of the School is also appointed Dean of the Faculty, he will receive an additional £A250 per year as salary and a further £A100 per year for entertainment expenses.

Applicants will need to have:—

(a) A degree or diploma of a fully recognised architectural school;

(b) membership of the Royal Institute of British Architects or of the Royal Australian Institute or of a professional body of similar standing;

(c) varied experience in architectural practice as a principal or partner;

(d) experience in the professional education of architects and building executives;

(e) organising and administrative ability. Subject to the consent of the Council of the University, professors may engage in a limited amount of higher consultative work.

The successful applicant will be eligible, subject to satisfactory medical examination, to join the superannuation scheme which provides a maximum pension of £A2,184 p.a.

Professors are eligible for six months' study leave on full salary after three years of service, or twelve months after six years of service.

The University reserves the right to fill the position by invitation.

With the approval of the University and its bankers, married men may be assisted by loans to purchase a home.

First class ship fares to Sydney of the appointee and his family will be paid.

Four copies of applications, including the names of three referees and a recent photograph of the applicant, should be lodged with the Agent General for New South Wales, 56 Strand, London, W.C.2, and a copy forwarded to the Appointments Section, The University of New South Wales, Box 1, Post Office, Kensington, New South Wales, Australia, by air mail to arrive before **28th February, 1961**. Applicants resident outside the United Kingdom and Eire need only submit one copy of their application to the London address. [7415]

Woolwich Group Hospital Management Committee

WORKS ASSISTANT

THIS appointment is for the Group Maintenance Department based at St. Nicholas Hospital, Tewson Road, Plumstead, S.E.18, to give general assistance to the Building Supervisor including making drawings and tracings and assisting with preparation of specifications and estimates of cost. Candidates should preferably have a building background or be in the process of acquiring one. Salary according to age, £485 per annum at 21; £620 per annum at 26 or over; rising to £720 per annum.

Apply giving full details of age and experience to Group Secretary, Memorial Hospital, Woolwich, S.E.18. [7413]

ARCHITECTURAL APPOINT- MENTS VACANT

STOP THAT COMMUTING! To architects in West Sussex we offer work on a wide variety of West African projects, prospects of service abroad, and £1,000 per annum. Apply in writing to Tecnica, Architects and Town Planners, 38 Sudley Road, Bognor Regis. [0844]

EDINBURGH. Architectural Assistants required immediately for expanding practice. Please write giving details of age, experience and salary required to Law & Dunbar-Nasmith, 54 Frederick Street, Edinburgh. [7358]

ARCHITECTURAL ASSISTANT required with at least two years' office experience. Apply in writing to Thomas Mitchell & Partners, 20 Bedford Square, London, W.C.1. [0916]

ARCHITECTURAL ASSISTANT, Intermediate standard. Busy London office. Good prospects. Box 3668. [0080]

LOUIS DE SOISSONS, PEACOCK, HODGES, ROBERTSON & FRASER require competent Architectural Assistants in their Exeter office; good salaries will be offered to suitable applicants. Details of training, experience and age should be sent, with an indication of salary required, to 12 Baring Crescent, Exeter. [7356]

ARCHITECTURAL ASSISTANT, London. Final standard. Industrial and commercial. Progressive and interesting. Salary according to experience and ability. Box 3667. [0079]

ASSISTANT ARCHITECTS required for staffing a new office opening in Southampton for work on interesting programmes for Universities, the War Department and Ecclesiastical projects. Juniors also required.

Apply stating age, qualifications, experience and salary required to Robert Potter, FRIBA, and Richard Hare, BArch, ARIBA, of De Vaux House, Salisbury. [0337]

SIMON-CARVES LTD.

have a vacancy for a

QUALIFIED ARCHITECT

in their Building and Civil Engineering
Department

Candidates should have A.R.I.B.A., have a wide experience in industrial buildings and allied work, and be capable of directing the work of others.

The preferred age range is 30-40 and a starting salary of up to £1,500 p.a. will be paid according to the calibre of the successful applicant.

Send brief relevant details to Staff and Training Division, SIMON-CARVES LTD., Cheadle Heath, Stockport, Cheshire, quoting Ref. RA.3.

Official Announcements

ARCHITECTURAL APPOINT- MENTS VACANT (cont)

HOWARD V. LOBB & PARTNERS require assistant architects. Salaries would be between £750 and £1,250 per year. Please write to 20 Gower Street, London, W.C.1. [0352]

A QUALIFIED Architectural Assistant required immediately in Home Counties office. Successful applicant will have the opportunity of working on widely varying industrial, commercial and housing schemes. Five day week. Write full particulars to Box 2486. [0837]

TWO FIRST-CLASS ARCHITECTURAL ASSISTANTS required. Salary range £1,250-£1,750 per annum, depending upon experience. Write with fullest details of experience Box 2500. [0839]

WEST END OFFICE requires Assistant Architects of Final and Intermediate Standards for interesting industrial projects in Home Counties. Good salaries offered to men with initiative and ability. Bonus scheme, five-day week, holiday arrangements honoured. Box 0627. [0380]

FRY, DREW & PARTNERS require qualified assistants for interesting and important work in England. Salary range £850-£1,000. Apply 63 Gloucester Place, W.1 (WEL 3318). [7388]

QUALIFIED ARCHITECTS looking for some really interesting new work should apply to George, Trew and Dunn at their new offices, 50 Eastbourne Terrace, W.2. [7393]

EXPERIENCED ARCHITECTURAL ASSISTANT required for busy West End office. General practice but mainly office and commercial projects. Bernard Gold & Partners, 4/6 Savile Row, W.1. REGent 7551. [0852]

ASSISTANT ARCHITECT with experience and/or interest in schools and multi-storey flats. Write Eric Lyons, Mill House, Bridge Road, Hampton Court, Surrey. [0338]

INTERMEDIATE to Final ASSISTANTS required immediately. Salary according to ability and experience. Theo. H. Birks, 38 Portland Place, London, W.1. LAN 7236. [7384]

BASIL SPENCE & PARTNERS require qualified and experienced Architects to fill positions of responsibility on a major building programme. Write to 1 Fitzroy Square, W.1, stating experience and salary required. [0470]

PLAYNE & LACEY require experienced and enthusiastic Architectural Assistants. Salary range £900-£1,050. Write 19 Queen Anne's Gate, Westminster, S.W.1, or ring WHI 2552 for interview. [0850]

ASSISTANTS, Senior and Intermediate, required by Harker & Hall for their London office. Good salaries, with scope for initiative and responsibility. Apply: 13 Welbeck Street, London, W.1 (WEL: 0061). [0849]

ARCHITECTURAL ASSISTANTS who are looking for some really interesting work where wide experience can be gained, should apply to George, Trew and Dunn at their new offices, 50 Eastbourne Terrace, W.2. [7392]

LEADING LONDON FIRM OF CHARTERED SURVEYORS have a vacancy for a qualified Architect in their Building Department which deals with wide variety of interesting work. Write giving particulars of age, experience and salary required to Box No. 3708. [7421]

A VACANCY occurs in the West End Branch of large provincial Architectural Practice, for an assistant at Intermediate standard. The post offers considerable scope on varied projects. Five day week, Luncheon Vouchers. Write giving particulars of age, experience and salary required, to Box No. 2485. [0836]

ASSISTANT required—Final standard, for varied practice in office of Barber, Bundy & Greenfield, F/A/ARIBA. Salary by arrangement. Reply to 5 Apple Market, Kingston-upon-Thames. [0853]

REQUIRED IMMEDIATELY, Senior and Junior Architectural Assistants. Varied and progressive work including large scale multi-storey housing schemes. Write or telephone to COLLICUTT & HAMP, 86 Prince Albert Road, Regents Park, N.W.8. PRImrose 5157. [7407]

J. DOUGLASS MATHEWS & PARTNERS have several vacancies for architectural assistants. Salary range £700 to £1,000. Group system operated, giving opportunity for taking part in all aspects of work. Graded salary system. Annual bonuses. Pension Scheme. Luncheon Vouchers. 3 Ebury Street, London, S.W.1. [0838]

ASSISTANT ARCHITECT with experience and/or interest in schools and multi-storey flats. Write Eric Lyons, Mill House, Bridge Road, Hampton Court, Surrey. [0338]

GOOD SALARIES and varied opportunities for Assistant Architects to run jobs on Colleges, Schools (all types), Technical Colleges, Offices and Publishing House, Halls of Residence, etc. Write Charles Pike & Partners, 14 Lincoln's Inn Fields, W.C.2, or Phone HOL. 3532 for appt. [7416]

SENIOR ASSISTANTS required immediately. Salary by arrangement. Theo. H. Birks, 38 Portland Place, London, W.1. LAN 7236. [7383]

Miscellaneous Announcements

Rate • 1/9d per line minimum 3/6d, average line 6 words. Each paragraph charged separately.

Situations wanted • advertisements are accepted at the specially reduced rate of 6d per line minimum 1/6d

Box Numbers • add two words plus 1s for registration and forwarding replies which should be addressed c/o "The Architect & Building News," Dorset House, Stamford Street, London, S.E.1.

Semi-display • advertisements with centralized lines are charged at 25s per inch, and pro rata, minimum half inch.

Press Day • Monday. Remittances payable to "Architect & Building News," Dorset House, Stamford Street, London, S.E.1.

NO RESPONSIBILITY ACCEPTED FOR ERRORS

OFFICES TO LET

SOUTH LONDON (near Croydon) opposite main S.R. station. Floor areas of 400, 2,000 and 2,600 sq ft at 13s 0d per sq ft.

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